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CLARK OIL & REFINING
ILD 041889023
SF/HRS
Vol. 2of 2

CERCLA

Analytical Results

Illinois Environmental
Protection Agency

DEC 1 4 2000

NARRATIVE

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 11/27/00

SUBJECT: Review of Data
Received for Review on **Nov. 20, 2000**

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

for Steve Ostrodka
Richard L Byrnes
12/6/00

TO: Data User: **IEPA**

We have reviewed the data for the following case:

SITE NAME: **CLARK OIL (IL)**

CASE NUMBER: **28678** SDG NUMBER: **EE01B**

Number and Type of Samples: **8 SOILS**

Sample Numbers: **EE01B - EE01H, and EE01J**

Laboratory: **COMPUCHEM** Hrs. for Review: 10.5

Following are our findings:

The data are acceptable and usable with the qualifications discussed in the attached narrative
Richard L Byrnes

RECEIVED
DEC 1 9 2000
IEPA-FOL-FSRS

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

NARRATIVE

Case Number : 28678 SDG Number: EE01B
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eight (8) soil samples, numbered *EE01B* through *EE01H* and *EE01J,* were collected *November 01, 2000.* The lab received the samples on *November 02 and 03, 2000* in good condition. All samples were analyzed for the full list of organic analytes. All were analyzed according to CLP SOW *OLM04.2* 5/99.

Reviewed By: W. Ira Wilson/Lockheed Martin/ESAT
Date: Nov. 27, 2000

NARRATIVE

Case Number : 28678 SDG Number: EE01B
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

1. HOLDING TIME

No problems found for this qualification.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems found for this qualification.

3. CALIBRATION

The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Acetone
EE01B, EE01C, EE01CMS, EE01CMSD, EE01D, EE01E
EE01F, EE01J, VBLKRO, VBLKRP, VBLKRT, VHBLKRO

Methyl Acetate
EE01B, EE01C, EE01CMS, EE01CMSD, EE01D, EE01E
EE01F, EE01J, VBLKRO, VBLKRP, VBLKRT, VHBLKRO

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Dichlorodifluoromethane
EE01C, EE01E, EE01F, EE01G, EE01GMS, EE01GMSD
EE01H, EE01HRE, VBLKRO, VBLKRR, VBLKTT

Chloromethane
EE01G, EE01H, EE01HRE, VBLKRR

Vinyl Chloride
EE01G, EE01H, EE01HRE, VBLKRR

Bromomethane
EE01G, EE01H, EE01HRE, VBLKRR

Chloroethane
EE01G, EE01H, EE01HRE, VBLKRR

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Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

Trichlorofluoromethane
EE01C, EE01E, EE01F, EE01G, EE01H, EE01HRE
VBLKRO, VBLKRR

Acetone
EE01GMS, EE01GMSD, VBLKTT

2-Butanone
EE01B, EE01C, EE01CMS, EE01CMSD, EE01D, EE01E
EE01F, EE01GMS, EE01GMSD, EE01J, VBLKRO, VBLKRP
VBLKTT

4-Methyl-2-pentanone
EE01C, EE01E, EE01F, VBLKRO

2-Hexanone
EE01C, EE01E, EE01F, VBLKRO

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

2,2'-oxybis(1-Chloropropane)
EE01B, EE01BMS, EE01BMSD, SBLKTB

Nitrobenzene
EE01H

Hexachlorobutadiene
EE01B, EE01BMS, EE01BMSD, EE01C, EE01CMS, EE01CMSD
EE01D, EE01E, EE01F, EE01G, EE01H, EE01J
SBLKSW, SBLKTB

4-Chloro-3-methylphenol
EE01C, EE01CMS, EE01CMSD, EE01D, EE01E, EE01F
EE01G, EE01J, SBLKSW

Hexachlorocyclopentadiene
EE01H

3-Nitroaniline
EE01B, EE01BMS, EE01BMSD, SBLKTB

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NARRATIVE

Case Number : 28678 SDG Number: EE01B
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

2,4-Dinitrophenol
EE01C, EE01CMS, EE01CMSD, EE01D, EE01E, EE01F
EE01G, EE01J, SBLKSW

4-Nitrophenol
EE01B, EE01BMS, EE01BMSD, EE01C, EE01CMS, EE01CMSD
EE01D, EE01E, EE01F, EE01G, EE01H, EE01J
SBLKSW, SBLKTB

4-Chlorophenyl-phenylether
EE01H

Fluoranthene
EE01C, EE01CMS, EE01CMSD, EE01D, EE01E, EE01F
EE01G, EE01J, SBLKSW

Butylbenzylphthalate
EE01B, EE01BMS, EE01BMSD, SBLKTB

3,3'-Dichlorobenzidine
EE01H

Benzo(k)fluoranthene
EE01H

4. BLANKS

The following volatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated method blank concentration.
Hits are qualified "U" and non-detects are not flagged.

Acetone
EE01C

Methylene Chloride
EE01F

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL.

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NARRATIVE

Case Number : 28678 SDG Number: EE01B
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

Hits are qualified "U" and non-detects are not flagged.

Acetone
EE01E, VHBLKR0O

Methylene Chloride
EE01B, EE01C, EE01CMS, EE01CMSD, EE01D, EE01E, VHBLKRO

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following volatile samples have system monitoring compound recoveries above the upper limit of the criteria window.
Hits are qualified "J" and non-detects are not flagged.

EE01GMSD, EE01H, EE01HRE

The following semivolatile samples have surrogate percent recoveries below the lower limit but greater than 10% in the base neutral fraction. For this one "only" outlier in only one fraction, no qualification is required.

EE01BMS, EE01BMSD

The following pesticide samples have surrogate percent recoveries which exceed the upper limit of the criteria window.
Hits are qualified "J" and non-detects are not flagged.

EE01DDL, EE01H, PBLKSW

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The following volatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria.
Hits are flagged "J" and non-detects are not flagged in the unspiked sample.

EE01CMSD
Toluene

The following semivolatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Hits are flagged "J" and non-detects are flagged "UJ" in the unspiked sample.

EE01BMS

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NARRATIVE

Case Number : 28678 SDG Number: EE01B
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

N-Nitroso-di-n-propylamine, Pyrene

EE01BMSD
N-Nitroso-di-n-propylamine, Acenaphthene, 2,4-Dinitrotoluene, Pyrene

Hits in this unspiked sample are flagged "J" and non-detects are not flagged.

EE01CMS
Pyrene

7. FIELD BLANK AND FIELD DUPLICATE

Sample (none) is a Field Blank. Sample (none) is a Field Duplicate of sample. Results are not qualified based upon the results of the Field Blanks or Field Duplicates.

8. INTERNAL STANDARDS

The following semivolatile samples have internal standard area counts that are outside the lower limit of primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

EE01CMS
Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene
Chrysene, bis(2-Ethylhexyl)phthalate, Di-n-octylphthalate, Benzo(b)fluoranthene
Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene
Benzo(g,h,i)perylene

EE01CMSD
Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene
Chrysene, bis(2-Ethylhexyl)phthalate, Di-n-octylphthalate, Benzo(b)fluoranthene
Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene
Benzo(g,h,i)perylene

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

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Case Number : 28678 SDG Number: EE01B
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

EE01B
Methyl Acetate, Cyclohexane , Methylcyclohexane
4-Methyl-2-pentanone

EE01C
Carbon Disulfide, 2-Butanone, Toluene
Tetrachloroethene

EE01CMS
Trichlorofluoromethane, Cyclohexane , Methylcyclohexane
Tetrachloroethene, Ethylbenzene, Isopropylbenzene

EE01CMSD
Trichlorofluoromethane, Cyclohexane , Methylcyclohexane
Ethylbenzene, Isopropylbenzene

EE01D
2-Butanone, Toluene

EE01E
Benzene, Methylcyclohexane
Toluene, Tetrachloroethene

EE01F
Trichlorofluoromethane, Carbon Disulfide, Toluene, Tetrachloroethene
Ethylbenzene

EE01G
Benzene, Xylenes (total), Isopropylbenzene

EE01GMS
Chloromethane, Bromomethane, Methylene Chloride , Chloroform
Xylenes (total), Isopropylbenzene

EE01GMSD
Methylene Chloride , Chloroform, Xylenes (total), Isopropylbenzene

EE01H
Bromomethane, Methylene Chloride , Toluene, Styrene
Isopropylbenzene

EE01HRE
Chloromethane, Bromomethane, Methylene Chloride , Toluene
Styrene, Isopropylbenzene

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NARRATIVE

Case Number : 28678 SDG Number: EE01B
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

EE01J
Benzene, Isopropylbenzene

VBLKRO
Acetone , Methylene Chloride

VBLKRP
Methylene Chloride

VBLKRR
2-Butanone, 4-Methyl-2-pentanone, 2-Hexanone, 1,2-Dibromo-3-chloropropane
1,2,4-Trichlorobenzene

VBLKRT
Acetone , Methylene Chloride

VBLKTT
2-Butanone, 2-Hexanone, 1,2-Dibromo-3-chloropropane , 1,2,4-Trichlorobenzene

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

EE01BMS
4-Nitrophenol, Pentachlorophenol

EE01BMSD
4-Nitrophenol, Pentachlorophenol

EE01C
Pyrene, Chrysene, bis(2-Ethylhexyl)phthalate

EE01CMS
Benzaldehyde, Dibenzofuran, Fluorene, Carbazole
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene
Benzo(g,h,i)perylene

EE01CMSD
Fluorene, Benzo(a)anthracene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene
Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

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Case Number : 28678 SDG Number: EE01B
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

EE01D
2-Methylnaphthalene, Dibenzofuran, Phenanthrene, Anthracene
Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene
bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene
Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EE01E
Di-n-octylphthalate

EE01F
Naphthalene

EE01G
Naphthalene

EE01H
1,1'-Biphenyl , Phenanthrene, Pyrene, Chrysene

EE01J
Acenaphthene, Dibenzofuran, Fluorene, Phenanthrene
Pyrene

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

EE01B
Heptachlor epoxide, Endosulfan I, 4,4'-DDE, Endrin
4,4'-DDD, 4,4'-DDT, Methoxychlor, Endrin ketone
Endrin aldehyde, alpha-Chlordane

EE01BMS
Endrin ketone

EE01BMSD
Endrin ketone

EE01C
gamma-BHC (Lindane), Endrin, 4,4'-DDD, Endrin ketone
Endrin aldehyde, alpha-Chlordane, gamma-Chlordane

EE01CDL
Aldrin, Dieldrin, 4,4'-DDE, Endrin
4,4'-DDD, Endosulfan sulfate, Endrin aldehyde, alpha-Chlordane

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Case Number : 28678 SDG Number: EE01B
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

gamma-Chlordane

EE01CMS
4,4'-DDE, Endrin ketone, alpha-Chlordane, gamma-Chlordane

EE01CMSD
4,4'-DDE, Endrin ketone, Endrin aldehyde, gamma-Chlordane

EE01D
Heptachlor epoxide, Endosulfan I, Endrin ketone

EE01DDL
4,4'-DDE, Endrin aldehyde, alpha-Chlordane

EE01E
alpha-Chlordane

EE01H
beta-BHC, gamma-BHC (Lindane), Aldrin, Endrin
Endrin ketone, Endrin aldehyde

EE01J
alpha-BHC, Aldrin, Heptachlor epoxide, Dieldrin
4,4'-DDE, Endrin, Endosulfan sulfate, Methoxychlor
Endrin ketone, Endrin aldehyde, alpha-Chlordane

The following pesticide samples have analytes for which the percent difference between column results exceeds primary criteria. Hits are flagged "J".

EE01B
Heptachlor epoxide, Endosulfan I, 4,4'-DDD, 4,4'-DDT
Methoxychlor, Endrin ketone, Endrin aldehyde, alpha-Chlordane

EE01BMS
beta-BHC, Endrin ketone

EE01BMSD
Endrin ketone

EE01C
gamma-BHC (Lindane), Endrin, Endrin ketone, Endrin aldehyde
alpha-Chlordane, gamma-Chlordane

Reviewed By: W. Ira Wilson/Lockheed Martin/ESAT
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NARRATIVE

Case Number : 28678 SDG Number: EE01B
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

EE01CDL
Aldrin, Dieldrin, 4,4'-DDE, Endrin
4,4'-DDD, Endosulfan sulfate, alpha-Chlordane, gamma-Chlordane

EE01CMS
gamma-BHC (Lindane), Heptachlor, 4,4'-DDE, Endrin ketone
alpha-Chlordane

EE01CMSD
gamma-BHC (Lindane), Heptachlor, 4,4'-DDE, Endrin ketone
Endrin aldehyde, gamma-Chlordane

EE01D
Heptachlor epoxide, Endosulfan I, 4,4'-DDE, Endosulfan sulfate
4,4'-DDT, Endrin ketone, alpha-Chlordane, Aroclor-1254

EE01DDL
4,4'-DDE, alpha-Chlordane, Aroclor-1254

EE01E
alpha-Chlordane

EE01H
beta-BHC, gamma-BHC (Lindane), Aldrin, Endrin
Endrin ketone, Endrin aldehyde

EE01J
alpha-BHC, Aldrin, Heptachlor epoxide, Dieldrin
4,4'-DDE, Endrin, Endosulfan sulfate, Methoxychlor
Endrin ketone, Endrin aldehyde, alpha-Chlordane

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

In the pesticide fraction, Dieldrin and 4,4'-DDD exceeded the instrument's calibration range in sample EE01D. For analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration.

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Date: Nov. 27, 2000

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)
H	Sample result is estimated and biased high.
L	Sample result is estimated and biased low.

Volatile Analysis Data - EE01G
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01B

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	BRANCHED ALKANE	4.46	5547.000	J
	BRANCHED ALKANE	6.89	7177.000	J
	STRAIGHT-CHAIN ALKANE	7.28	7118.000	J
563-78-0	1-BUTENE, 2,3-DIMETHYL-	7.55	1515.000	NJ
616-12-6	2-PENTENE, 3-METHYL-, (E)-	7.86	1265.000	NJ
	CYCLIC ALKANE	8.01	16420.000	J
	UNKNOWN	8.61	1271.000	J
	BRANCHED ALKANE	8.82	17200.000	J
	BRANCHED ALKANE	8.90	19680.000	J
	BRANCHED ALKANE	9.03	9910.000	J
	BRANCHED ALKANE	9.34	24450.000	J
	BRANCHED ALKANE	10.75	5844.000	J
	BRANCHED ALKANE	10.92	4082.000	J
	BRANCHED ALKANE	11.03	5372.000	J
	BRANCHED ALKANE	11.20	3987.000	J
	UNKNOWN	11.73	4686.000	J
	BRANCHED ALKANE	12.40	4031.000	J
	BRANCHED ALKANE	12.83	8824.000	J
	BRANCHED ALKANE	12.95	4631.000	J
	BRANCHED ALKANE	13.36	4590.000	J
	UNKNOWN	13.56	7827.000	J
	UNKNOWN	13.86	2772.000	J
	BRANCHED ALKANE	14.10	31680.000	J
	SUBSTITUTED BENZENE	14.27	7458.000	J
	UNKNOWN ALKANE	14.45	5197.000	J
	BRANCHED ALKANE	14.68	7755.000	J
	UNKNOWN	14.81	3125.000	J
	SUBSTITUTED BENZENE	15.00	5855.000	J
	BRANCHED ALKANE	15.05	8213.000	J
135-01-3	BENZENE, 1,2-DIETHYL-	15.14	3194.000	NJ
	SUBSTITUTED BENZENE	15.21	4396.000	J
93-53-8	BENZENEACETALDEHYDE, .ALPHA.-METHYL-	15.34	3453.000	NJ
99-87-6	BENZENE, 1-METHYL-4-(1-METHYLETHYL)-	15.47	10590.000	NJ
	SUBSTITUTED BENZENE	15.55	4179.000	J
933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHYL-	15.73	8791.000	NJ
	SUBSTITUTED BENZENE	15.81	9180.000	J
27133-93-3	2,3-DIHYDRO-1-METHYLINDENE	15.96	7396.000	NJ
3333-13-9	BENZENE, 1-METHYL-4-(2-PROPENYL)-	16.07	15310.000	NJ
	UNKNOWN	16.29	10060.000	J
56253-64-6	BENZENE, (2-METHYL-1-BUTENYL)-	16.39	7620.000	NJ
	UNKNOWN	16.64	4922.000	J
6682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-DIMETHYL-	16.79	3211.000	NJ
6682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-DIMETHYL-	16.94	2766.000	NJ
	SUBSTITUTED BENZENE	17.03	1200.000	J
	UNKNOWN	17.11	1522.000	J
	UNKNOWN	17.23	785.100	J

Volatile Analysis Data - EE01H
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01B

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	STRAIGHT-CHAIN ALKANE	3.24	4412.000	J
	BRANCHED ALKANE	4.45	6062.000	J
	STRAIGHT-CHAIN ALKANE	4.96	2087.000	J
627-20-3	2-PENTENE, (Z)-	5.24	636.600	NJ
	BRANCHED ALKANE	6.53	4559.000	J
	BRANCHED ALKANE	6.88	1990.000	J
	STRAIGHT-CHAIN ALKANE	7.27	1832.000	J
	CYCLIC ALKANE	8.00	3542.000	J
	BRANCHED ALKANE	8.81	9686.000	J
	BRANCHED ALKANE	9.01	4227.000	J
	CYCLIC ALKANE	9.33	4541.000	J
	UNKNOWN	10.92	745.300	J
	BRANCHED ALKANE	11.00	4448.000	J
	BRANCHED ALKANE	11.19	3639.000	J
	STRAIGHT-CHAIN ALKANE	11.72	3459.000	J
	CYCLIC ALKANE	12.01	1907.000	J
	BRANCHED ALKANE	12.40	3984.000	J
	UNKNOWN	12.58	1578.000	J
	BRANCHED ALKANE	12.82	9032.000	J
	BRANCHED ALKANE	12.94	4263.000	J
	BRANCHED ALKANE	13.75	2288.000	J
	UNKNOWN	13.85	5155.000	J
	BRANCHED ALKANE	14.15	5506.000	J
	UNKNOWN	14.27	5161.000	J
611-14-3	BENZENE, 1-ETHYL-2-METHYL-	14.34	27880.000	NJ
	SUBSTITUTED BENZENE	14.40	24410.000	J
611-14-3	BENZENE, 1-ETHYL-2-METHYL-	14.56	10800.000	NJ
526-73-8	BENZENE, 1,2,3-TRIMETHYL-	14.69	49710.000	NJ
	UNKNOWN	14.89	9613.000	J
95-36-3	1,2,4-TRIMETHYLBENZENE	15.00	20850.000	NJ
99-87-6	BENZENE, 1-METHYL-4-(1-METHYLETHYL)-	15.20	41240.000	NJ
	STRAIGHT-CHAIN ALKANE	15.28	19060.000	J
535-77-3	BENZENE, 1-METHYL-3-(1-METHYLETHYL)-	15.40	22730.000	NJ
35-77-3	BENZENE, 1-METHYL-3-(1-METHYLETHYL)-	15.46	22590.000	NJ
	SUBSTITUTED BENZENE	15.55	17680.000	J
933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHYL-	15.76	38980.000	NJ
	UNKNOWN	15.83	21970.000	J
27133-93-3	2,3-DIHYDRO-1-METHYLINDENE	15.96	37310.000	NJ
3333-13-9	BENZENE, 1-METHYL-4-(2-PROPENYL)-	16.07	56930.000	NJ
	SUBSTITUTED BENZENE	16.29	28780.000	J
	DIHYDRODIMETHYLINDENE	16.39	28930.000	J
	UNKNOWN	16.64	29610.000	J
1559-81-5	NAPHTHALENE, 1,2,3,4-TETRAHYDRO-1-METHYL	16.80	18220.000	NJ
6682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-DIMETHYL-	16.94	32340.000	NJ
	UNKNOWN	17.22	14780.000	J
264-09-5	BENZOCYCLOHEPTATRIENE	17.59	37620.000	NJ
571-58-4	NAPHTHALENE, 1,4-DIMETHYL-	18.62	9288.000	NJ

Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01B

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN ALKANE	2.85	1236.000	J
	UNKNOWN ALKANE	3.27	5828.000	J
	BRANCHED ALKANE	4.47	7457.000	J
	STRAIGHT-CHAIN ALKANE	5.00	2832.000	J
	BRANCHED ALKANE	6.56	6515.000	J
	BRANCHED ALKANE	6.91	2805.000	J
	STRAIGHT-CHAIN ALKANE	7.29	2731.000	J
	CYCLIC ALKANE	8.03	4764.000	J
	BRANCHED ALKANE	8.84	14070.000	J
	BRANCHED ALKANE	9.05	5472.000	J
	UNKNOWN	9.36	5844.000	J
	UNKNOWN	10.77	638.900	J
	BRANCHED ALKANE	11.04	5636.000	J
	BRANCHED ALKANE	11.21	4942.000	J
	UNKNOWN ALKANE	11.74	6934.000	J
	CYCLIC ALKANE	12.03	2673.000	J
	BRANCHED ALKANE	12.29	1448.000	J
	BRANCHED ALKANE	12.41	5165.000	J
	UNKNOWN	12.60	2031.000	J
	UNKNOWN	12.84	10660.000	J
	BRANCHED ALKANE	12.96	5563.000	J
	BRANCHED ALKANE	13.76	3408.000	J
	UNKNOWN	13.86	6568.000	J
	BRANCHED ALKANE	14.16	6534.000	J
	SUBSTITUTED BENZENE	14.27	5317.000	J
611-14-3	BENZENE, 1-ETHYL-2-METHYL-	14.35	61660.000	NJ
108-67-8	BENZENE, 1,3,5-TRIMETHYL-	14.56	13080.000	NJ
526-73-8	BENZENE, 1,2,3-TRIMETHYL-	14.69	58680.000	NJ
	SUBSTITUTED BENZENE	14.89	11310.000	J
	SUBSTITUTED BENZENE	15.00	24820.000	J
	SUBSTITUTED BENZENE	15.19	53960.000	J
	STRAIGHT-CHAIN ALKANE	15.29	20220.000	J
99-87-6	BENZENE, 1-METHYL-4-(1-METHYLETHYL)-	15.46	53100.000	NJ
	UNKNOWN	15.55	16410.000	J
	UNKNOWN	15.62	8623.000	J
99-87-6	BENZENE, 1-METHYL-4-(1-METHYLETHYL)-	15.76	50790.000	NJ
2050-24-0	BENZENE, 1,3-DIETHYL-5-METHYL-	15.83	21830.000	NJ
824-22-6	1H-INDENE, 2,3-DIHYDRO-4-METHYL-	15.96	46190.000	NJ
	UNKNOWN	16.07	69530.000	J
	UNKNOWN	16.29	36070.000	J
	UNKNOWN	16.39	35950.000	J
	UNKNOWN	16.64	37400.000	J
17059-48-2	1H-INDENE, 2,3-DIHYDRO-1,6-DIMETHYL-	16.79	23000.000	NJ
17057-82-8	1H-INDENE, 2,3-DIHYDRO-1,2-DIMETHYL-	16.94	41410.000	NJ
	UNKNOWN	17.22	19340.000	J
264-09-5	BENZOCYCLOHEPTATRIENE	17.59	59360.000	NJ

Volatile Analysis Data - VBLKRO
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01B

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
541-05-9	CYCLOTRISILOXANE, HEXAMETHYL-	13.55	8.300	NJ
556-67-2	CYCLOTETRASILOXANE, OCTAMETHYL-	16.17	33.590	NJ
	LABORATORY ARTIFACT	17.91	87.790	J
	LABORATORY ARTIFACT	19.46	34.330	J

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Volatile Analysis Data - EE01E
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01B

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	LABORATORY ARTIFACT	13.42	5.890	J
	CYCLIC ALKANE	13.88	5.970	J
	LABORATORY ARTIFACT	16.00	8.990	J
	LABORATORY ARTIFACT	17.71	8.400	JB

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Volatile Analysis Data - EE01C
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01B

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	8.29	106.100	J
41-05-9	CYCLOTRISILOXANE, HEXAMETHYL-	13.38	7.930	NJB
	LABORATORY ARTIFACT	15.97	6.950	J
611-14-3	BENZENE, 1-ETHYL-2-METHYL-	16.10	13.230	NJ
95-36-3	1,2,4-TRIMETHYLBENZENE	16.52	6.860	NJ
496-11-7	INDANE	17.10	19.170	NJ
	LABORATORY ARTIFACT	17.67	9.410	JB
	LABORATORY ARTIFACT	19.19	15.250	JB
	UNKNOWN	20.62	10.320	J

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Volatile Analysis Data - EE01F
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01B

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	BRANCHED ALKANE	4.63	479.700	J
	BRANCHED ALKANE	8.84	1637.000	J
	UNKNOWN	9.93	4301.000	J
	UNKNOWN	10.43	2278.000	J
	BRANCHED ALKANE	11.49	1205.000	J
	UNKNOWN	11.96	1618.000	J
	BRANCHED ALKANE	12.11	1693.000	J
	BRANCHED ALKANE	12.63	474.400	J
	UNKNOWN	12.86	79.690	J
	UNKNOWN	13.13	160.200	J
	BRANCHED ALKANE	13.76	439.900	J
	UNKNOWN	14.23	516.600	J
	BRANCHED ALKANE	14.52	469.600	J
	BRANCHED ALKANE	14.87	577.300	J
	BRANCHED ALKANE	15.13	700.100	J
	BRANCHED ALKANE	15.23	356.200	J
	BRANCHED ALKANE	15.35	488.300	J
	BRANCHED ALKANE	15.46	449.900	J
	UNKNOWN	15.80	1709.000	J
	BRANCHED ALKANE	15.98	910.200	J
	BRANCHED ALKANE	16.22	815.400	J
	BRANCHED ALKANE	16.52	1006.000	J
	UNKNOWN	16.64	412.200	J
	STRAIGHT-CHAIN ALKANE	16.75	516.400	J
	BRANCHED ALKANE	16.87	405.700	J
	BRANCHED ALKANE	16.99	765.500	J
300-57-2	BENZENE, 2-PROPENYL-	17.10	317.200	NJ
	UNKNOWN	17.17	331.900	J
	BRANCHED ALKANE	17.38	431.000	J
535-77-3	BENZENE, 1-METHYL-3-(1-METHYLETHYL)-	17.52	388.800	NJ
	UNKNOWN	17.57	565.400	J
	UNKNOWN	17.77	370.300	J
933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHYL-	17.87	328.000	NJ
	UNKNOWN	17.92	263.400	J
	BRANCHED ALKANE	18.02	618.200	J
	UNKNOWN	18.14	239.700	J
	UNKNOWN	18.25	123.600	J
27133-93-3	2,3-DIHYDRO-1-METHYLINDENE	18.30	321.200	NJ
	UNKNOWN	18.37	235.400	J
	UNKNOWN	18.45	212.500	J
	UNKNOWN	18.54	171.500	J
4218-48-8	BENZENE, 1-ETHYL-4-(1-METHYLETHYL)-	18.61	323.800	NJ
4912-92-9	1H-INDENE, 2,3-DIHYDRO-1,1-DIMETHYL-	18.71	426.600	NJ
	UNKNOWN	18.89	260.200	J
	UNKNOWN	19.00	134.300	J
	UNKNOWN	19.06	156.800	J
6682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-DIMETHYL-	19.18	235.700	NJ

Volatile Analysis Data - VBLKRP
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01B

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
7446-09-5	SULFUR DIOXIDE	3.06	71.760	NJ
	LABORATORY ARTIFACT	16.36	30.210	J
	LABORATORY ARTIFACT	18.12	112.000	J
	LABORATORY ARTIFACT	19.69	20.210	J

Volatile Analysis Data - EE01D
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01B

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
7446-09-5	SULFUR DIOXIDE	3.06	80.700	NJB
541-05-9	CYCLOTRISILOXANE, HEXAMETHYL-	13.42	6.450	NJ
556-67-2	CYCLOTETRASILOXANE, OCTAMETHYL-	15.99	30.490	NJ
	LABORATORY ARTIFACT	17.69	22.430	J
	LABORATORY ARTIFACT	19.21	6.520	J

Volatile Analysis Data - EE01B
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01B

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
7446-09-5	SULFUR DIOXIDE	3.10	126.700	NJB
	UNKNOWN ALKANE	5.31	27.210	J
	BRANCHED ALKANE	7.20	13.220	J
541-05-9	CYCLOTRISILOXANE, HEXAMETHYL-	13.41	14.400	NJ
	UNKNOWN	13.74	12.090	J
	BRANCHED ALKANE	15.51	14.120	J
	LABORATORY ARTIFACT	15.98	32.550	J
	STRAIGHT-CHAIN ALKANE	16.21	13.540	J
95-36-3	1,2,4-TRIMETHYLBENZENE	16.53	12.350	NJ
	STRAIGHT-CHAIN ALKANE	17.31	13.930	J
	LABORATORY ARTIFACT	17.67	50.900	J
933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHYL-	17.92	9.780	NJ
933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHYL-	18.30	22.830	NJ
	BRANCHED ALKANE	18.39	10.890	J
	UNKNOWN	18.72	10.120	J
	UNKNOWN	18.77	9.790	J
	UNKNOWN	18.89	15.040	J
	LABORATORY ARTIFACT	19.20	23.210	J
	UNKNOWN	19.35	9.670	J

Volatile Analysis Data - EE01J
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01B

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	BRANCHED ALKANE	4.65	187.900	J
	STRAIGHT-CHAIN ALKANE	5.33	192.500	J
	BRANCHED ALKANE	7.23	1134.000	J
	BRANCHED ALKANE	7.63	660.900	J
	STRAIGHT-CHAIN ALKANE	8.09	551.800	J
	BRANCHED ALKANE	8.90	739.700	J
	BRANCHED ALKANE	9.96	1987.000	J
	BRANCHED ALKANE	10.12	400.600	J
	BRANCHED ALKANE	10.45	1160.000	J
	UNKNOWN ALKANE	11.55	154.200	J
	BRANCHED ALKANE	12.00	396.700	J
	BRANCHED ALKANE	12.15	317.800	J
526-73-8	BENZENE, 1,2,3-TRIMETHYL-	16.64	167.000	NJ
535-77-3	BENZENE, 1-METHYL-3-(1-METHYLETHYL)-	17.64	180.200	NJ
	UNKNOWN	17.77	406.200	J
	UNKNOWN	17.98	265.800	J
	UNKNOWN ALKANE	18.06	131.700	J
4175-53-5	1H-INDENE, 2,3-DIHYDRO-1,3-DIMETHYL-	18.13	244.300	NJ
	UNKNOWN	18.32	233.400	J
27133-93-3	2,3-DIHYDRO-1-METHYLINDENE	18.43	499.000	NJ
	BRANCHED ALKANE	18.51	376.500	J
	UNKNOWN	18.59	360.400	J
4175-53-5	1H-INDENE, 2,3-DIHYDRO-1,3-DIMETHYL-	18.72	628.400	NJ
56253-64-6	BENZENE, (2-METHYL-1-BUTENYL)-	18.84	682.900	NJ
	UNKNOWN	18.91	409.000	J
	BRANCHED ALKANE	19.02	603.400	J
	UNKNOWN	19.14	478.600	J
	UNKNOWN	19.20	416.500	J
	UNKNOWN	19.32	757.900	J
17057-82-8	1H-INDENE, 2,3-DIHYDRO-1,2-DIMETHYL-	19.47	635.500	NJ
	UNKNOWN	19.60	375.900	J
	UNKNOWN	19.66	708.000	J
	UNKNOWN	19.81	638.700	J
	BRANCHED ALKANE	19.95	521.300	J
	UNKNOWN	20.05	334.000	J
	UNKNOWN	20.11	159.500	J
264-09-5	BENZOCYCLOHEPTATRIENE	20.21	569.200	NJ
	UNKNOWN	20.25	264.100	J
	UNKNOWN	20.34	191.700	J
	UNKNOWN	20.43	224.200	J
	UNKNOWN	20.56	159.200	J
	UNKNOWN	20.60	219.800	J
	UNKNOWN ALKANE	20.75	338.400	J
	UNKNOWN	20.81	203.800	J
	UNKNOWN	21.05	318.400	J
582-16-1	NAPHTHALENE, 2,7-DIMETHYL-	21.15	219.000	NJ
581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	21.35	232.000	NJ

Volatile Analysis Data - VBLKRT
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01B
LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
541-05-9	CYCLOTRISILOXANE, HEXAMETHYL-	13.40	6.680	NJ
556-67-2	CYCLOTETRASILOXANE, OCTAMETHYL-	15.98	50.440	NJ
	LABORATORY ARTIFACT	17.68	109.000	J
	LABORATORY ARTIFACT	19.20	32.370	J

Volatile Analysis Data - VHBLKRO
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01B
LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
541-05-9	CYCLOTRISILOXANE, HEXAMETHYL-	13.42	5.710	NJB
556-67-2	CYCLOTETRASILOXANE, OCTAMETHYL-	15.98	44.950	NJB
	LABORATORY ARTIFACT	17.68	104.400	JB
	LABORATORY ARTIFACT	19.20	27.740	JB

Semivolatile Analysis Data - EE01B
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01B
LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	11.25	4244.000	NJ
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	12.33	3788.000	NJ
	UNKNOWN	12.75	3247.000	J
	UNKNOWN	19.70	3371.000	J
	UNKNOWN	19.83	2709.000	J
	UNKNOWN	20.02	2282.000	J
	UNKNOWN	20.14	2984.000	J
	UNKNOWN	20.21	4658.000	J
	UNKNOWN	20.32	4399.000	J
	UNKNOWN	20.37	3601.000	J
	UNKNOWN	20.42	3692.000	J
	UNKNOWN	20.73	3565.000	J
	UNKNOWN	20.78	5460.000	J
	UNKNOWN	20.93	3837.000	J
	UNKNOWN	21.07	3938.000	J
	UNKNOWN	21.17	4478.000	J
	UNKNOWN	21.44	3951.000	J
53584-60-4	28-NOR-17.ALPHA.(H)-HOPANE	21.54	6454.000	NJ
	UNKNOWN	22.08	11790.000	J
	UNKNOWN	22.37	3410.000	J
	UNKNOWN	22.57	3490.000	J
	UNKNOWN	22.81	9209.000	J
	UNKNOWN	22.91	9161.000	J
	UNKNOWN	23.09	6103.000	J
	UNKNOWN	23.21	4567.000	J
	UNKNOWN	23.47	6755.000	J
	UNKNOWN	23.64	5030.000	J
	UNKNOWN	24.38	6041.000	J
	UNKNOWN	25.51	5224.000	J
	UNKNOWN	26.53	5840.000	J

Semivolatile Analysis Data - SBLKSW
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01B

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (BC)	7.07	676.200	J
	UNKNOWN (BC)	8.59	159.700	J

Semivolatile Analysis Data - EE01D
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01B

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (BC)	7.12	1038.000	JB
	UNKNOWN	18.28	303.200	J
	UNKNOWN	18.77	494.700	J
1961-96-2	1H-INDENE, 1-PHENYL-	18.80	374.900	NJ
	UNKNOWN	18.85	350.400	J
	METHYLPHENANTHRENE	18.93	725.300	J
	UNKNOWN	19.00	528.600	J
57-10-3	HEXADECANOIC ACID	19.09	788.400	NJ
	UNKNOWN	19.17	649.700	J
	UNKNOWN	19.44	579.600	J
	UNKNOWN	19.56	1309.000	J
3674-69-9	PHENANTHRENE, 4,5-DIMETHYL-	19.69	896.500	NJ
	UNKNOWN	19.75	739.600	J
	UNKNOWN	20.08	394.500	J
	UNKNOWN	20.13	765.400	J
544-63-8	TETRADECANOIC ACID	20.35	1203.000	NJ
	UNKNOWN	20.46	705.400	J
68194-12-7	1,1'-BIPHENYL, 2,3',4,5,5'-PENTACHLORO-	20.69	570.400	NJ
	UNKNOWN	20.83	521.800	J
	UNKNOWN	20.93	476.900	J
	METHYLPYRENE	20.98	744.600	J
53-19-0	MITOTANE	21.13	723.000	NJ
	UNKNOWN	21.30	779.500	J
	UNKNOWN	21.47	837.800	J
	UNKNOWN	21.52	615.400	J
	UNKNOWN	21.79	614.800	J
	UNKNOWN	21.96	633.300	J
	UNKNOWN	25.14	786.100	J

Semivolatile Analysis Data - EE01E
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01B

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (BC)	7.12	1171.000	JB
	UNKNOWN (BC)	8.63	282.800	JB
	UNKNOWN PHTHALATE	23.33	127.000	J
	UNKNOWN PHTHALATE	23.61	404.900	J
	UNKNOWN PHTHALATE	23.82	200.800	J
	UNKNOWN	23.90	295.200	J
	UNKNOWN PHTHALATE	23.94	272.300	J
	UNKNOWN PHTHALATE	24.02	269.400	J
	UNKNOWN PHTHALATE	24.07	156.400	J
	UNKNOWN	26.00	252.900	J

Semivolatile Analysis Data - EE01F
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01B

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (BC)	7.11	920.300	JB
	UNKNOWN	8.90	549.300	J
	UNKNOWN	9.74	434.800	J
135-98-8	BENZENE, (1-METHYLPROPYL)-	9.91	853.500	NJ
2870-04-4	BENZENE, 2-ETHYL-1,3-DIMETHYL-	10.18	887.200	NJ
934-80-5	BENZENE, 4-ETHYL-1,2-DIMETHYL-	10.37	959.400	NJ
95-93-2	BENZENE, 1,2,4,5-TETRAMETHYL-	10.98	534.500	NJ
933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHYL-	11.06	605.200	NJ
	UNKNOWN	11.38	525.000	J
	UNKNOWN	11.53	509.300	J
767-58-8	INDAN, 1-METHYL-	11.57	321.000	NJ
	UNKNOWN	11.65	390.200	J
	UNKNOWN	11.72	449.900	J
54120-62-6	BENZENE, ETHYL-1,2,4-TRIMETHYL-	11.90	387.900	NJ
2049-95-8	BENZENE, (1,1-DIMETHYLPROPYL)-	11.99	363.000	NJ
56253-64-6	BENZENE, (2-METHYL-1-BUTENYL)-	12.17	475.700	NJ
	UNKNOWN	12.33	715.100	J
	UNKNOWN	12.70	269.700	J
17057-82-8	1H-INDENE, 2,3-DIHYDRO-1,2-DIMETHYL-	13.02	514.000	NJ
6682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-DIMETHYL-	13.19	428.800	NJ
	SUBSTITUTED BENZENE	13.41	335.800	J
90-12-0	NAPHTHALENE, 1-METHYL-	13.76	315.700	NJ
	UNKNOWN PHTHALATE	22.38	459.500	J
117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	22.45	576.200	NJ
27554-26-3	1,2-BENZENEDICARBOXYLIC ACID, DIISOOCTYL	22.69	1087.000	NJ
10152-69-9	CYCLOPROPANENONANOIC ACID, 2-[(2-BUTYLCY	22.77	1766.000	NJ
	UNKNOWN	22.87	1080.000	J
10152-69-9	CYCLOPROPANENONANOIC ACID, 2-[(2-BUTYLCY	22.97	791.300	NJ
10152-69-9	CYCLOPROPANENONANOIC ACID, 2-[(2-BUTYLCY	23.06	1172.000	NJ
	UNKNOWN PHTHALATE	23.11	371.400	J
	UNKNOWN	26.01	1122.000	J

Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01B

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (BC)	7.14	734.000	JB
	UNKNOWN (BC)	8.63	339.900	JB
	UNKNOWN	8.90	318.400	J
	UNKNOWN	9.66	543.900	J
135-98-8	BENZENE, (1-METHYLPROPYL)-	9.91	681.800	NJ
933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHYL-	10.37	1470.000	NJ
874-41-9	BENZENE, 1-ETHYL-2,4-DIMETHYL-	10.77	274.800	NJ
95-93-2	BENZENE, 1,2,4,5-TETRAMETHYL-	10.97	686.100	NJ
	UNKNOWN	11.38	644.400	J
767-58-8	INDAN, 1-METHYL-	11.57	679.500	NJ
874-41-9	BENZENE, 1-ETHYL-2,4-DIMETHYL-	11.62	337.200	NJ
	SUBSTITUTED BENZENE	11.72	268.800	J
	SUBSTITUTED BENZENE	11.87	292.000	J
54120-62-6	BENZENE, ETHYL-1,2,4-TRIMETHYL-	11.90	380.900	NJ
	SUBSTITUTED BENZENE	11.99	415.900	J
56253-64-6	BENZENE, (2-METHYL-1-BUTENYL)-	12.17	527.000	NJ
	SUBSTITUTED BENZENE	12.26	247.100	J
	UNKNOWN	12.33	596.900	J
0-00-0	1,5,6,7-TETRAMETHYLBICYCLO[3,2,0]HEPTA-2	12.50	234.100	NJ
	UNKNOWN	12.70	210.300	J
	UNKNOWN	12.83	275.500	J
1559-81-5	NAPHTHALENE, 1,2,3,4-TETRAHYDRO-1-METHYL	13.02	469.000	NJ
1559-81-5	NAPHTHALENE, 1,2,3,4-TETRAHYDRO-1-METHYL	13.19	340.500	NJ
20294-32-0	6-METHYL-4-INDANOL	13.41	327.800	NJ
90-12-0	NAPHTHALENE, 1-METHYL-	13.76	337.600	NJ
582-16-1	NAPHTHALENE, 2,7-DIMETHYL-	14.90	345.100	NJ
	UNKNOWN PHTHALATE	22.38	278.300	J
	UNKNOWN PHTHALATE	22.43	304.300	J
	UNKNOWN PHTHALATE	22.69	616.600	J
	UNKNOWN PHTHALATE	22.74	985.100	J
	UNKNOWN PHTHALATE	22.85	441.800	J
	UNKNOWN PHTHALATE	22.96	420.700	J

Semivolatile Analysis Data - EE01J
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01B

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (BC)	7.13	1763.000	JB
	UNKNOWN	13.55	1016.000	J
	UNKNOWN	14.09	625.900	J
	UNKNOWN	14.58	486.700	J
	SUBSTITUTED NAPHTHALENE	14.63	537.400	J
582-16-1	NAPHTHALENE, 2,7-DIMETHYL-	14.76	795.200	NJ
575-43-9	NAPHTHALENE, 1,6-DIMETHYL-	14.92	898.600	NJ
	UNKNOWN	14.98	591.100	J
	UNKNOWN	15.30	464.700	J
	UNKNOWN	15.39	566.700	J
	UNKNOWN	15.54	776.600	J
2027-17-0	NAPHTHALENE, 2-(1-METHYLETHYL)-	15.69	990.800	NJ
	UNKNOWN	15.85	411.100	J
	UNKNOWN	15.88	448.900	J
	UNKNOWN	16.00	487.400	J
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	16.06	853.500	NJ
2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL-	16.22	708.900	NJ
	UNKNOWN	16.35	597.300	J
	UNKNOWN	16.42	719.700	J
	UNKNOWN	16.50	520.400	J
	UNKNOWN	16.57	487.600	J
	UNKNOWN	16.69	392.300	J
	UNKNOWN	17.38	416.300	J
	UNKNOWN	17.43	387.400	J
	UNKNOWN	17.59	556.600	J
	UNKNOWN	17.75	450.400	J
	UNKNOWN PHTHALATE	23.47	1006.000	J
28553-12-0	1,2-BENZENEDICARBOXYLIC ACID, DIISONONYL	23.62	913.500	NJ
	UNKNOWN PHTHALATE	23.96	876.800	J

Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01B

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (BC)	7.12	1629.000	JB
	UNKNOWN (BC)	8.63	509.000	JB
	UNKNOWN	19.31	403.900	J
16587-34-1	NAPHTHO[2,3-B]THIOPHENE, 4,9-DIMETHYL-	19.49	456.500	NJ
	UNKNOWN	19.69	485.200	J
	UNKNOWN	19.83	371.500	J
	UNKNOWN	19.93	448.400	J
	UNKNOWN	20.07	448.300	J
	UNKNOWN	20.35	381.600	J
3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHYL-	20.40	481.800	NJ
3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHYL-	20.47	599.400	NJ
	UNKNOWN	20.84	641.600	J
	METHYLPYRENE	21.00	406.300	J
	UNKNOWN	21.30	412.800	J
	UNKNOWN	21.37	507.600	J
103-23-1	HEXANEDIOIC ACID, BIS(2-ETHYLHEXYL) ESTE	21.72	653.000	NJ
	UNKNOWN	21.84	425.500	J
	UNKNOWN	23.16	470.000	J
	UNKNOWN	23.34	773.500	J
	UNKNOWN PHTHALATE	23.63	2317.000	J
28553-12-0	1,2-BENZENEDICARBOXYLIC ACID, DIISONONYL	23.75	2412.000	NJ
	UNKNOWN	23.83	1013.000	J
	UNKNOWN PHTHALATE	23.92	1431.000	J
	UNKNOWN PHTHALATE	23.97	1451.000	J
	UNKNOWN	24.04	1663.000	J
	UNKNOWN PHTHALATE	24.09	960.900	J
	UNKNOWN PHTHALATE	24.17	694.900	J
73105-67-6	1-IODO-2-METHYLUNDECANE	24.21	885.400	NJ
	UNKNOWN PHTHALATE	24.29	578.100	J
	UNKNOWN	24.54	382.500	J
	UNKNOWN	25.93	374.500	J

Semivolatile Analysis Data - EE01H
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01B

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
611-14-3	BENZENE, 1-ETHYL-2-METHYL-	7.26	5424.000	NJ
95-36-3	1,2,4-TRIMETHYLBENZENE	8.09	6886.000	NJ
95-36-3	1,2,4-TRIMETHYLBENZENE	8.80	2224.000	NJ
1074-43-7	BENZENE, 1-METHYL-3-PROPYL-	9.54	2920.000	NJ
	SUBSTITUTED BENZENE	9.62	1505.000	J
874-41-9	BENZENE, 1-ETHYL-2,4-DIMETHYL-	9.72	2626.000	NJ
874-41-9	BENZENE, 1-ETHYL-2,4-DIMETHYL-	10.20	3263.000	NJ
	SUBSTITUTED BENZENE	10.35	4075.000	J
933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHYL-	10.98	2231.000	NJ
527-84-4	BENZENE, 1-METHYL-2-(1-METHYLETHYL)-	11.06	2475.000	NJ
1587-04-8	BENZENE, 1-METHYL-2-(2-PROPENYL)-	11.38	2327.000	NJ
	SUBSTITUTED BENZENE	11.53	2255.000	J
27133-93-3	2,3-DIHYDRO-1-METHYLINDENE	11.57	1738.000	NJ
	UNKNOWN	11.65	1520.000	J
	UNKNOWN	11.72	1347.000	J
	UNKNOWN	12.17	2184.000	J
17057-82-8	1H-INDENE, 2,3-DIHYDRO-1,2-DIMETHYL-	12.33	1901.000	NJ
	UNKNOWN	12.83	1468.000	J
	UNKNOWN	12.87	1558.000	J
4175-53-5	1H-INDENE, 2,3-DIHYDRO-1,3-DIMETHYL-	13.04	3631.000	NJ
	UNKNOWN	13.14	2333.000	J
	UNKNOWN	13.19	2506.000	J
	UNKNOWN	13.36	1761.000	J
	UNKNOWN	13.41	1325.000	J
90-12-0	NAPHTHALENE, 1-METHYL-	13.78	1962.000	NJ
571-61-9	NAPHTHALENE, 1,5-DIMETHYL-	14.76	1782.000	NJ
575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	14.91	2257.000	NJ
	UNKNOWN	15.30	900.300	J
2027-17-0	NAPHTHALENE, 2-(1-METHYLETHYL)-	15.69	848.800	NJ
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	16.10	1197.000	NJ

Analytical Results (Qualified Data)

Page ____ of ____

Case #: 28678 SDG : EE01B

Site : CLARK OIL

Lab. : LIBRTY

Reviewer :

Date :

Number of Soil Samples : 8

Number of Water Samples : 0

Sample Number :	EE01B		EE01C		EE01CMS		EE01CMSD		EE01D	
Sampling Location :	X101		X102		X102		X102		X103	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/1/00		11/1/00		11/1/00		11/1/00		11/1/00	
Time Sampled :	11:30		11:30		11:30		11:30		12:50	
%Moisture :	0		29		29		29		16	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	19	U	14	UJ	14	U	14	U	11	U
Chloromethane	19	U	14	U	14	U	14	U	11	U
Vinyl Chloride	19	U	14	U	14	U	14	U	11	U
Bromomethane	19	U	14	U	14	U	14	U	11	U
Chloroethane	19	U	14	U	14	U	14	U	11	U
Trichlorofluoromethane	19	U	14	UJ	2	J	1	J	11	U
1,1-Dichloroethene	19	U	14	U	68		71		11	U
1,1,2-Trichloro-1,2,2-trifluoroethane	19	U	14	U	14	U	14	U	11	U
Acetone	110	J	36	UJ	760	J	810	J	50	J
Carbon Disulfide	19	U	2	J	39		59		11	U
Methyl Acetate	8	J	14	UJ	14	UJ	14	UJ	11	UJ
Methylene Chloride	19	U	14	U	14	U	14	U	11	U
trans-1,2-Dichloroethene	19	U	14	U	14	U	14	U	11	U
Methyl tert-Butyl Ether	19	U	14	U	14	U	14	U	11	U
1,1-Dichloroethane	19	U	14	U	14	U	14	U	11	U
cis-1,2-Dichloroethene	19	U	14	U	14	U	14	U	11	U
2-Butanone	23	J	6	J	180	J	140	J	9	J
Chloroform	19	U	14	U	14	U	14	U	11	U
1,1,1-Trichloroethane	19	U	14	U	14	U	14	U	11	U
Cyclohexane	4	J	14	U	3	J	1	J	11	U
Carbon Tetrachloride	19	U	14	U	14	U	14	U	11	U
Benzene	19	U	14	U	76		78		11	U
1,2-Dichloroethane	19	U	14	U	14	U	14	U	11	U
Trichloroethene	19	U	14	U	67		72		11	U
Methylcyclohexane	4	J	14	U	3	J	3	J	11	U
1,2-Dichloropropane	19	U	14	U	14	U	14	U	11	U
Bromodichloromethane	19	U	14	U	14	U	14	U	11	U
cis-1,3-Dichloropropene	19	U	14	U	14	U	14	U	11	U
4-Methyl-2-pentanone	12	J	14	UJ	14	U	14	U	11	U
Toluene	19	U	4	J	100		100		2	J
trans-1,3-Dichloropropene	19	U	14	U	14	U	14	U	11	U
1,1,2-Trichloroethane	19	U	14	U	14	U	14	U	11	U
Tetrachloroethene	19	U	1	J	2	J	14	U	11	U
2-Hexanone	19	U	14	UJ	14	U	14	U	11	U
Dibromochloromethane	19	U	14	U	14	U	14	U	11	U
1,2-Dibromoethane	19	U	14	U	14	U	14	U	11	U
Chlorobenzene	19	U	14	U	73		78		11	U
Ethylbenzene	19	U	14	U	5	J	4	J	11	U
Xylenes (total)	19	U	42		780		640		11	U
Styrene	19	U	14	U	14	U	14	U	11	U
Bromoform	19	U	14	U	14	U	14	U	11	U
Isopropylbenzene	19	U	14	U	3	J	3	J	11	U
1,1,2,2-Tetrachloroethane	19	U	14	U	14	U	14	U	11	U
1,3-Dichlorobenzene	19	U	14	U	14	U	14	U	11	U

1,4-Dichlorobenzene	19	U	14	U	14	U	14	U	11	U
1,2-Dichlorobenzene	19	U	14	U	14	U	14	U	11	U
1,2-Dibromo-3-chloropropane	19	U	14	U	14	U	14	U	11	U
1,2,4-Trichlorobenzene	19	U	14	U	14	U	14	U	11	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01B
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01E		EE01F		EE01G		EE01GMS		EE01GMSD	
Sampling Location :	X104		X105		X106		X106		X106	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/1/00		11/1/00		11/1/00		11/1/00		11/1/00	
Time Sampled :	13:10		15:00		15:20		15:20		15:20	
%Moisture :	22		8		21		21		21	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	11	UJ	10	UJ	1100	UJ	1100	UJ	1100	UJ
Chloromethane	11	U	10	U	1100	UJ	330	J	1100	U
Vinyl Chloride	11	U	10	U	1100	UJ	1100	U	1100	U
Bromomethane	11	U	10	U	1100	UJ	230	J	1100	U
Chloroethane	11	U	10	U	1100	UJ	1100	U	1100	U
Trichlorofluoromethane	11	UJ	1	J	1100	UJ	1100	U	1100	U
1,1-Dichloroethene	11	U	10	U	1100	U	5600		6700	J
1,1,2-Trichloro-1,2,2-trifluoroethane	11	U	10	U	1100	U	1100	U	1100	U
Acetone	11	U	200	J	1100	UB	1200	J	1100	UJ
Carbon Disulfide	11	UJ	2	J	1100	U	1100	U	1100	U
Methyl Acetate	11	UJ	10	UJ	1100	U	1100	U	1100	U
Methylene Chloride	11	U	16	U	1100	U	140	J	140	J
trans-1,2-Dichloroethene	11	U	10	U	1100	U	1100	U	1100	U
Methyl tert-Butyl Ether	11	U	10	U	1100	U	1100	U	1100	U
1,1-Dichloroethane	11	U	10	U	1100	U	1100	U	1100	U
cis-1,2-Dichloroethene	11	U	10	U	1100	U	1100	U	1100	U
2-Butanone	11	UJ	10	UJ	1100	U	1100	UJ	1100	UJ
Chloroform	11	U	10	U	1100	U	140	J	130	J
1,1,1-Trichloroethane	11	U	10	U	1100	U	1100	U	1100	U
Cyclohexane	11	U	10	U	1100	U	1100	U	1100	U
Carbon Tetrachloride	11	U	10	U	1100	U	1100	U	1100	U
Benzene	2	J	10	U	200	J	5800		5900	J
1,2-Dichloroethane	11	U	10	U	1100	U	1100	U	1100	U
Trichloroethene	11	U	10	U	1100	U	4900		5200	J
Methylcyclohexane	4	J	10	U	9100		8000		7300	J
1,2-Dichloropropane	11	U	10	U	1100	U	1100	U	1100	U
Bromodichloromethane	11	U	10	U	1100	U	1100	U	1100	U
cis-1,3-Dichloropropene	11	U	10	U	1100	U	1100	U	1100	U
4-Methyl-2-pentanone	11	UJ	10	UJ	1100	U	1100	U	1100	U
Toluene	3	J	9	J	1100	U	5300		4800	J
trans-1,3-Dichloropropene	11	U	10	U	1100	U	1100	U	1100	U
1,1,2-Trichloroethane	11	U	10	U	1100	U	1100	U	1100	U
Tetrachloroethene	2	J	2	J	1100	U	1100	U	1100	U
2-Hexanone	11	UJ	10	UJ	1100	U	1100	U	1100	U
Dibromochloromethane	11	U	10	U	1100	U	1100	U	1100	U
1,2-Dibromoethane	11	U	10	U	1100	U	1100	U	1100	U
Chlorobenzene	11	U	10	U	1100	U	5500		5600	J
Ethylbenzene	11	U	5	J	1400		1500		1500	J

Xylenes (total)	11	U	10		180	J	180	J	170	J
Styrene	11	U	10	U	1100	U	1100	U	1100	U
Bromoform	11	U	10	U	1100	U	1100	U	1100	U
Isopropylbenzene	11	U	110		420	J	460	J	490	J
1,1,2,2-Tetrachloroethane	11	U	10	U	1100	U	1100	U	1100	U
1,3-Dichlorobenzene	11	U	10	U	1100	U	1100	U	1100	U
1,4-Dichlorobenzene	11	U	10	U	1100	U	1100	U	1100	U
1,2-Dichlorobenzene	11	U	10	U	1100	U	1100	U	1100	U
1,2-Dibromo-3-chloropropane	11	U	10	U	1100	U	1100	U	1100	U
1,2,4-Trichlorobenzene	11	U	10	U	1100	U	1100	U	1100	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01B
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01H		EE01HRE		EE01J		VHBLKRO		VBLKRO	
Sampling Location :	X107		X107		X108					
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/1/00		11/1/00		11/1/00					
Time Sampled :	16:00		16:00		16:45					
%Moisture :	18		18		25		0		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	1100	UJ	1100	UJ	22	U	10	U	10	UJ
Chloromethane	1100	UJ	220	J	22	U	10	U	10	U
Vinyl Chloride	1100	UJ	1100	UJ	22	U	10	U	10	U
Bromomethane	160	J	180	J	22	U	10	U	10	U
Chloroethane	1100	UJ	1100	UJ	22	U	10	U	10	U
Trichlorofluoromethane	1100	UJ	1100	UJ	22	U	10	U	10	UJ
1,1-Dichloroethene	1100	U	1100	U	22	U	10	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroethane	1100	U	1100	U	22	U	10	U	10	U
Acetone	1100	U	1100	U	200	J	10	U	6	J
Carbon Disulfide	1100	U	1100	U	22	U	10	U	10	U
Methyl Acetate	1100	U	1100	U	22	UJ	10	UJ	10	UJ
Methylene Chloride	140	J	170	J	22	U	10	U	2	J
trans-1,2-Dichloroethene	1100	U	1100	U	22	U	10	U	10	U
Methyl tert-Butyl Ether	1100	U	1100	U	22	U	10	U	10	U
1,1-Dichloroethane	1100	U	1100	U	22	U	10	U	10	U
cis-1,2-Dichloroethene	1100	U	1100	U	22	U	10	U	10	U
2-Butanone	1100	U	1100	U	22	UJ	10	U	10	UJ
Chloroform	1100	U	1100	U	22	U	10	U	10	U
1,1,1-Trichloroethane	1100	U	1100	U	22	U	10	U	10	U
Cyclohexane	1100	U	1100	U	22	U	10	U	10	U
Carbon Tetrachloride	1100	U	1100	U	22	U	10	U	10	U
Benzene	1400	J	1600	J	6	J	10	U	10	U
1,2-Dichloroethane	1100	U	1100	U	22	U	10	U	10	U
Trichloroethene	1100	U	1100	U	22	U	10	U	10	U
Methylcyclohexane	2800	J	3800	J	180		10	U	10	U
1,2-Dichloropropane	1100	U	1100	U	22	U	10	U	10	U
Bromodichloromethane	1100	U	1100	U	22	U	10	U	10	U
cis-1,3-Dichloropropene	1100	U	1100	U	22	U	10	U	10	U
4-Methyl-2-pentanone	1100	U	1100	U	22	U	10	U	10	UJ
Toluene	810	J	1000	J	22	U	10	U	10	U
trans-1,3-Dichloropropene	1100	U	1100	U	22	U	10	U	10	U
1,1,2-Trichloroethane	1100	U	1100	U	22	U	10	U	10	U
Tetrachloroethene	1100	U	1100	U	22	U	10	U	10	U
2-Hexanone	1100	U	1100	U	22	U	10	U	10	UJ
Dibromochloromethane	1100	U	1100	U	22	U	10	U	10	U
1,2-Dibromoethane	1100	U	1100	U	22	U	10	U	10	U
Chlorobenzene	1100	U	1100	U	22	U	10	U	10	U
Ethylbenzene	5300	J	7100	J	22	U	10	U	10	U
Xylenes (total)	35000	J	46000	J	220		10	U	10	U
Styrene	150	J	200	J	22	U	10	U	10	U
Bromoform	1100	U	1100	U	22	U	10	U	10	U
Isopropylbenzene	400	J	520	J	13	J	10	U	10	U
1,1,2,2-Tetrachloroethane	1100	U	1100	U	22	U	10	U	10	U

1,3-Dichlorobenzene	1100	U	1100	U	22	U	10	U	10	U
1,4-Dichlorobenzene	1100	U	1100	U	22	U	10	U	10	U
1,2-Dichlorobenzene	1100	U	1100	U	22	U	10	U	10	U
1,2-Dibromo-3-chloropropane	1100	U	1100	U	22	U	10	U	10	U
1,2,4-Trichlorobenzene	1100	U	1100	U	22	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01B
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	VBLKRP		VBLKRR		VBLKRT		VBLKTT			
Sampling Location :										
Matrix :	Soil		Soil		Soil		Soil			
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10	U	1200	UJ	10	U	1200	UJ		
Chloromethane	10	U	1200	UJ	10	U	1200	U		
Vinyl Chloride	10	U	1200	UJ	10	U	1200	U		
Bromomethane	10	U	1200	UJ	10	U	1200	U		
Chloroethane	10	U	1200	UJ	10	U	1200	U		
Trichlorofluoromethane	10	U	1200	UJ	10	U	1200	U		
1,1-Dichloroethene	10	U	1200	U	10	U	1200	U		
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	1200	U	10	U	1200	U		
Acetone	10	UJ	1200	U	7	J	1200	UJ		
Carbon Disulfide	10	U	1200	U	10	U	1200	U		
Methyl Acetate	10	UJ	1200	U	10	UJ	1200	U		
Methylene Chloride	1	J	1200	U	3	J	1200	U		
trans-1,2-Dichloroethene	10	U	1200	U	10	U	1200	U		
Methyl tert-Butyl Ether	10	U	1200	U	10	U	1200	U		
1,1-Dichloroethane	10	U	1200	U	10	U	1200	U		
cis-1,2-Dichloroethene	10	U	1200	U	10	U	1200	U		
2-Butanone	10	UJ	190	J	10	U	270	J		
Chloroform	10	U	1200	U	10	U	1200	U		
1,1,1-Trichloroethane	10	U	1200	U	10	U	1200	U		
Cyclohexane	10	U	1200	U	10	U	1200	U		
Carbon Tetrachloride	10	U	1200	U	10	U	1200	U		
Benzene	10	U	1200	U	10	U	1200	U		
1,2-Dichloroethane	10	U	1200	U	10	U	1200	U		
Trichloroethene	10	U	1200	U	10	U	1200	U		
Methylcyclohexane	10	U	1200	U	10	U	1200	U		
1,2-Dichloropropane	10	U	1200	U	10	U	1200	U		
Bromodichloromethane	10	U	1200	U	10	U	1200	U		
cis-1,3-Dichloropropene	10	U	1200	U	10	U	1200	U		
4-Methyl-2-pentanone	10	U	140	J	10	U	1200	U		
Toluene	10	U	1200	U	10	U	1200	U		
trans-1,3-Dichloropropene	10	U	1200	U	10	U	1200	U		
1,1,2-Trichloroethane	10	U	1200	U	10	U	1200	U		
Tetrachloroethene	10	U	1200	U	10	U	1200	U		
2-Hexanone	10	U	220	J	10	U	140	U		
Dibromochloromethane	10	U	1200	U	10	U	1200	U		
1,2-Dibromoethane	10	U	1200	U	10	U	1200	U		
Chlorobenzene	10	U	1200	U	10	U	1200	U		
Ethylbenzene	10	U	1200	U	10	U	1200	U		
Xylenes (total)	10	U	1200	U	10	U	1200	U		
Styrene	10	U	1200	U	10	U	1200	U		
Bromoform	10	U	1200	U	10	U	1200	U		
Isopropylbenzene	10	U	1200	U	10	U	1200	U		
1,1,2,2-Tetrachloroethane	10	U	1200	U	10	U	1200	U		
1,3-Dichlorobenzene	10	U	1200	U	10	U	1200	U		

1,4-Dichlorobenzene	10	U	1200	U	10	U	1200	U		
1,2-Dichlorobenzene	10	U	1200	U	10	U	1200	U		
1,2-Dibromo-3-chloropropane	10	U	230	J	10	U	200	J		
1,2,4-Trichlorobenzene	10	U	240	J	10	U	130	J		

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01B

Site : CLARK OIL

Lab. : LIBRTY

Reviewer :

Date :

Number of Soil Samples : 8

Number of Water Samples : 0

Sample Number :	EE01B		EE01BMS		EE01BMSD		EE01C		EE01CMS	
Sampling Location :	X101		X101		X101		X102		X102	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/1/00		11/1/00		11/1/00		11/1/00		11/1/00	
Time Sampled :	11:30		11:30		11:30		11:30		11:30	
%Moisture :	0		0		0		29		29	
pH :	0.0		0.0		0.0		7.7		7.7	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	9000	U	9900	U	9900	U	460	U	66	J
Phenol	9000	U	25000		22000		460	U	2600	
bis-(2-Chloroethyl) ether	9000	U	9900	U	9900	U	460	U	460	U
2-Chlorophenol	9000	U	26000		25000		460	U	2600	
2-Methylphenol	9000	U	9900	U	9900	U	460	U	460	U
2,2'-oxybis(1-Chloropropane)	9000	UJ	9900	UJ	9900	UJ	460	U	460	U
Acetophenone	9000	U	9900	U	9900	U	460	U	460	U
4-Methylphenol	9000	U	9900	U	9900	U	460	U	460	U
N-Nitroso-di-n-propylamine	9000	U	16000		16000		460	U	1700	
Hexachloroethane	9000	U	9900	U	9900	U	460	U	460	U
Nitrobenzene	9000	U	9900	U	9900	U	460	U	460	U
Isophorone	9000	U	9900	U	9900	U	460	U	460	U
2-Nitrophenol	9000	U	9900	U	9900	U	460	U	460	U
2,4-Dimethylphenol	9000	U	9900	U	9900	U	460	U	460	U
bis(2-Chloroethoxy)methane	9000	U	9900	U	9900	U	460	U	460	U
2,4-Dichlorophenol	9000	U	9900	U	9900	U	460	U	460	U
Napnthalene	9000	U	9900	U	9900	U	460	U	460	U
4-Chloroaniline	9000	U	9900	U	9900	U	460	U	460	U
Hexachlorobutadiene	9000	UJ	9900	UJ	9900	UJ	460	UJ	460	UJ
Caprolactam	9000	U	9900	U	9900	U	460	U	460	U
4-Chloro-3-methylphenol	9000	U	26000		26000		460	UJ	2400	J
2-Methylnaphthalene	9000	U	9900	U	9900	U	460	U	460	U
Hexachlorocyclopentadiene	9000	U	9900	U	9900	U	460	U	460	U
2,4,6-Trichlorophenol	9000	U	9900	U	9900	U	460	U	460	U
2,4,5-Trichlorophenol	23000	U	25000	U	25000	U	1200	U	1200	U
1,1'-Biphenyl	9000	U	9900	U	9900	U	460	U	460	U
2-Chloronaphthalene	9000	U	9900	U	9900	U	460	U	460	U
2-Nitroaniline	23000	U	25000	U	25000	U	1200	U	1200	U
Dimethylphthalate	9000	U	9900	U	9900	U	460	U	460	U
2,6-Dinitrotoluene	9000	U	9900	U	9900	U	460	U	460	U
Acenaphthylene	9000	U	9900	U	9900	U	460	U	460	U
3-Nitroaniline	23000	UJ	25000	UJ	25000	UJ	1200	U	1200	U
Acenaphthene	9000	U	18000		15000		460	U	1700	

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01B
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01B		EE01BMS		EE01BMSD		EE01C		EE01CMS	
Sampling Location :	X101		X101		X101		X102		X102	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/1/00		11/1/00		11/1/00		11/1/00		11/1/00	
Time Sampled :	11:30		11:30		11:30		11:30		11:30	
%Moisture :	0		0		0		29		29	
pH :	0.0		0.0		0.0		7.7		7.7	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	23000	U	25000	U	25000	U	1200	UJ	1200	UJ
4-Nitrophenol	23000	UJ	19000	J	17000	J	1200	UJ	2700	J
Dibenzofuran	9000	U	9900	U	9900	U	460	U	53	J
2,4-Dinitrotoluene	9000	U	16000		13000		460	U	1400	
Diethylphthalate	9000	U	9900	U	9900	U	460	U	460	U
Fluorene	9000	U	9900	U	9900	U	460	U	140	J
4-Chlorophenyl-phenyl ether	9000	U	9900	U	9900	U	460	U	460	U
4-Nitroaniline	23000	U	25000	U	25000	U	1200	U	1200	U
4,6-Dinitro-2-methylphenol	23000	U	25000	U	25000	U	1200	U	1200	U
N-Nitrosodiphenylamine	9000	U	9900	U	9900	U	460	U	460	U
4-Bromophenyl-phenylether	9000	U	9900	U	9900	U	460	U	460	U
Hexachlorobenzene	9000	U	9900	U	9900	U	460	U	460	U
Atrazine	9000	U	9900	U	9900	U	460	U	460	U
Pentachlorophenol	23000	U	20000	J	16000	J	1200	U	1800	
Phenanthrene	9000	U	9900	U	9900	U	460	U	460	U
Anthracene	9000	U	9900	U	9900	U	460	U	460	U
Carbazole	9000	U	9900	U	9900	U	460	U	330	J
Di-n-butylphthalate	9000	U	9900	U	9900	U	460	U	460	U
Fluoranthene	9000	U	9900	U	9900	U	460	UJ	460	UJ
Pyrene	9000	U	15000		16000		200	J	4600	J
Butylbenzylphthalate	9000	UJ	9900	UJ	9900	UJ	460	U	460	UJ
3,3'-Dichlorobenzidine	9000	U	9900	U	9900	U	460	U	460	UJ
Benzo(a)anthracene	9000	U	9900	U	9900	U	460	U	480	J
Chrysene	9000	U	9900	U	9900	U	96	J	1200	J
bis(2-Ethylhexyl)phthalate	9000	U	9900	U	9900	U	220	J	460	UJ
Di-n-octylphthalate	9000	U	9900	U	9900	U	1000		460	UJ
Benzo(b)fluoranthene	9000	U	9900	U	9900	U	460	U	230	J
Benzo(k)fluoranthene	9000	U	9900	U	9900	U	460	U	180	J
Benzo(a)pyrene	9000	U	9900	U	9900	U	460	U	200	J
Indeno(1,2,3-cd)pyrene	9000	U	9900	U	9900	U	460	U	97	J
Dibenzo(a,h)anthracene	9000	U	9900	U	9900	U	460	U	460	UJ
Benzo(g,h,i)perylene	9000	U	9900	U	9900	U	460	U	220	J

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01B
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01CMSD		EE01D		EE01E		EE01F		EE01G	
Sampling Location :	X102		X103		X104		X105		X106	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/1/00		11/1/00		11/1/00		11/1/00		11/1/00	
Time Sampled :	11:30		12:50		13:10		15:00		15:20	
%Moisture :	29		16		21		8		21	
pH :	7.7		7.7		8.0		6.6		7.9	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	460	U	390	U	420	U	360	U	420	U
Phenol	2700		390	U	420	U	360	U	420	U
bis-(2-Chloroethyl) ether	460	U	390	U	420	U	360	U	420	U
2-Chlorophenol	2800		390	U	420	U	360	U	420	U
2-Methylphenol	460	U	390	U	420	U	360	U	420	U
2,2'-oxybis(1-Chloropropane)	460	U	390	U	420	U	360	U	420	U
Acetophenone	460	U	390	U	420	U	360	U	420	U
4-Methylphenol	460	U	390	U	420	U	360	U	420	U
N-Nitroso-di-n-propylamine	1800		390	U	420	U	360	U	420	U
Hexachloroethane	460	U	390	U	420	U	360	U	420	U
Nitrobenzene	460	U	390	U	420	U	360	U	420	U
Isophorone	460	U	390	U	420	U	360	U	420	U
2-Nitrophenol	460	U	390	U	420	U	360	U	420	U
2,4-Dimethylphenol	460	U	390	U	420	U	360	U	420	U
bis(2-Chloroethoxy)methane	460	U	390	U	420	U	360	U	420	U
2,4-Dichlorophenol	460	U	390	U	420	U	360	U	420	U
Naphthalene	460	U	390	U	420	U	250	J	150	J
4-Chloroaniline	460	U	390	U	420	U	360	U	420	U
Hexachlorobutadiene	460	UJ	390	UJ	420	UJ	360	UJ	420	UJ
Caprolactam	460	U	390	U	420	U	360	U	420	U
4-Chloro-3-methylphenol	2600	J	390	UJ	420	UJ	360	UJ	420	UJ
2-Methylnaphthalene	460	U	110	J	420	U	890		1100	
Hexachlorocyclopentadiene	460	U	390	U	420	U	360	U	420	U
2,4,6-Trichlorophenol	460	U	390	U	420	U	360	U	420	U
2,4,5-Trichlorophenol	1200	U	990	U	1100	U	900	U	1100	U
1,1'-Biphenyl	460	U	390	U	420	U	360	U	420	U
2-Chloronaphthalene	460	U	390	U	420	U	360	U	420	U
2-Nitroaniline	1200	U	990	U	1100	U	900	U	1100	U
Dimethylphthalate	460	U	390	U	420	U	360	U	420	U
2,6-Dinitrotoluene	460	U	390	U	420	U	360	U	420	U
Acenaphthylene	460	U	390	U	420	U	360	U	420	U
3-Nitroaniline	1200	U	990	U	1100	U	900	U	1100	U
Acenaphthene	1700		390	U	420	U	360	U	420	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01B
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01CMSD		EE01D		EE01E		EE01F		EE01G	
Sampling Location :	X102		X103		X104		X105		X106	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/1/00		11/1/00		11/1/00		11/1/00		11/1/00	
Time Sampled :	11:30		12:50		13:10		15:00		15:20	
%Moisture :	29		16		21		8		21	
pH :	7.7		7.7		8.0		6.6		7.9	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1200	UJ	990	UJ	1100	UJ	900	UJ	1100	UJ
4-Nitrophenol	2900	J	990	UJ	1100	UJ	900	UJ	1100	UJ
Dibenzofuran	460	U	42	J	420	U	360	U	420	U
2,4-Dinitrotoluene	1600		390	U	420	U	360	U	420	U
Diethylphthalate	460	U	390	U	420	U	360	U	420	U
Fluorene	77	J	390	U	420	U	360	U	420	U
4-Chlorophenyl-phenyl ether	460	U	390	U	420	U	360	U	420	U
4-Nitroaniline	1200	U	990	U	1100	U	900	U	1100	U
4,6-Dinitro-2-methylphenol	1200	U	990	U	1100	U	900	U	1100	U
N-Nitrosodiphenylamine	460	U	390	U	420	U	360	U	420	U
4-Bromophenyl-phenylether	460	U	390	U	420	U	360	U	420	U
Hexachlorobenzene	460	U	390	U	420	U	360	U	420	U
Atrazine	460	U	390	U	420	U	360	U	420	U
Pentachlorophenol	2400		990	U	1100	U	900	U	1100	U
Phenanthrene	460	U	250	J	420	U	360	U	420	U
Anthracene	460	U	50	J	420	U	360	U	420	U
Carbazole	460	U	390	U	420	U	360	U	420	U
Di-n-butylphthalate	460	U	390	U	420	U	360	U	420	U
Fluoranthene	460	UJ	260	J	420	UJ	360	UJ	420	UJ
Pyrene	3500	J	350	J	420	U	360	U	420	U
Butylbenzylphthalate	460	UJ	390	U	420	U	360	U	420	U
3,3'-Dichlorobenzidine	460	UJ	390	U	420	U	360	U	420	U
Benzo(a)anthracene	210	J	130	J	420	U	360	U	420	U
Chrysene	600	J	160	J	420	U	360	U	420	U
bis(2-Ethylhexyl)phthalate	280	J	52	J	420	U	850		600	
Di-n-octylphthalate	460	UJ	390	U	120	J	360	U	420	U
Benzo(b)fluoranthene	110	J	240	J	420	U	360	U	420	U
Benzo(k)fluoranthene	140	J	190	J	420	U	360	U	420	U
Benzo(a)pyrene	96	J	130	J	420	U	360	U	420	U
Indeno(1,2,3-cd)pyrene	64	J	91	J	420	U	360	U	420	U
Dibenzo(a,h)anthracene	460	UJ	45	J	420	U	360	U	420	U
Benzo(g,h,i)perylene	140	J	100	J	420	U	360	U	420	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01B
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01H		EE01J		SBLKSW		SBLKTB			
Sampling Location :	X107		X108							
Matrix :	Soil		Soil		Soil		Soil			
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :	11/1/00		11/1/00							
Time Sampled :	16:00		16:45							
%Moisture :	18		25		N/A		N/A			
pH :	7.7		8.4							
Dilution Factor :	2.0		1.0		1.0		1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	800	U	440	U	330	U	9900	U		
Phenol	800	U	440	U	330	U	9900	U		
bis-(2-Chloroethyl) ether	800	U	440	U	330	U	9900	U		
2-Chlorophenol	800	U	440	U	330	U	9900	U		
2-Methylphenol	800	U	440	U	330	U	9900	U		
2,2'-oxybis(1-Chloropropane)	800	U	440	U	330	U	9900	UJ		
Acetophenone	800	U	440	U	330	U	9900	U		
4-Methylphenol	800	U	440	U	330	U	9900	U		
N-Nitroso-di-n-propylamine	800	U	440	U	330	U	9900	U		
Hexachloroethane	800	U	440	U	330	U	9900	U		
Nitrobenzene	800	UJ	440	U	330	U	9900	U		
Isophorone	800	U	440	U	330	U	9900	U		
2-Nitrophenol	800	U	440	U	330	U	9900	U		
2,4-Dimethylphenol	800	U	440	U	330	U	9900	U		
bis(2-Chloroethoxy)methane	800	U	440	U	330	U	9900	U		
2,4-Dichlorophenol	800	U	440	U	330	U	9900	U		
Naphthalene	2500		440	U	330	U	9900	U		
4-Chloroaniline	800	U	440	U	330	U	9900	U		
Hexachlorobutadiene	800	UJ	440	UJ	330	UJ	9900	UJ		
Caprolactam	800	U	440	U	330	U	9900	U		
4-Chloro-3-methylphenol	800	U	440	UJ	330	UJ	9900	U		
2-Methylnaphthalene	2000		440	U	330	U	9900	U		
Hexachlorocyclopentadiene	800	UJ	440	U	330	U	9900	U		
2,4,6-Trichlorophenol	800	U	440	U	330	U	9900	U		
2,4,5-Trichlorophenol	2000	U	1100	U	830	U	25000	U		
1,1'-Biphenyl	110	J	440	U	330	U	9900	U		
2-Chloronaphthalene	800	U	440	U	330	U	9900	U		
2-Nitroaniline	2000	U	1100	U	830	U	25000	U		
Dimethylphthalate	800	U	440	U	330	U	9900	U		
2,6-Dinitrotoluene	800	U	440	U	330	U	9900	U		
Acenaphthylene	800	U	440	U	330	U	9900	U		
3-Nitroaniline	2000	U	1100	U	830	U	25000	UJ		
Acenaphthene	800	U	50	J	330	U	9900	U		

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01B
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01H		EE01J		SBLKSW		SBLKTB			
Sampling Location :	X107		X108							
Matrix :	Soil		Soil		Soil		Soil			
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :	11/1/00		11/1/00							
Time Sampled :	16:00		16:45							
%Moisture :	18		25		N/A		N/A			
pH :	7.7		8.4							
Dilution Factor :	2.0		1.0		1.0		1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	2000	U	1100	UJ	830	UJ	25000	U		
4-Nitrophenol	2000	UJ	1100	UJ	830	UJ	25000	UJ		
Dibenzofuran	800	U	47	J	330	U	9900	U		
2,4-Dinitrotoluene	800	U	440	U	330	U	9900	U		
Diethylphthalate	800	U	440	U	330	U	9900	U		
Fluorene	800	U	66	J	330	U	9900	U		
4-Chlorophenyl-phenyl ether	800	UJ	440	U	330	U	9900	U		
4-Nitroaniline	2000	U	1100	U	830	U	25000	U		
4,6-Dinitro-2-methylphenol	2000	U	1100	U	830	U	25000	U		
N-Nitrosodiphenylamine	800	U	440	U	330	U	9900	U		
4-Bromophenyl-phenylether	800	U	440	U	330	U	9900	U		
Hexachlorobenzene	800	U	440	U	330	U	9900	U		
Atrazine	800	U	440	U	330	U	9900	U		
Pentachlorophenol	2000	U	1100	U	830	U	25000	U		
Phenanthrene	180	J	69	J	330	U	9900	U		
Anthracene	800	U	440	U	330	U	9900	U		
Carbazole	800	U	440	U	330	U	9900	U		
Di-n-butylphthalate	800	U	440	U	330	U	9900	U		
Fluoranthene	800	U	440	UJ	330	UJ	9900	U		
Pyrene	370	J	46	J	330	U	9900	U		
Butylbenzylphthalate	800	U	440	U	330	U	9900	UJ		
3,3'-Dichlorobenzidine	800	UJ	440	U	330	U	9900	U		
Benzo(a)anthracene	800	U	440	U	330	U	9900	U		
Chrysene	120	J	440	U	330	U	9900	U		
bis(2-Ethylhexyl)phthalate	800	U	460		330	U	9900	U		
Di-n-octylphthalate	800	U	440	U	330	U	9900	U		
Benzo(b)fluoranthene	800	U	440	U	330	U	9900	U		
Benzo(k)fluoranthene	800	UJ	440	U	330	U	9900	U		
Benzo(a)pyrene	800	U	440	U	330	U	9900	U		
Indeno(1,2,3-cd)pyrene	800	U	440	U	330	U	9900	U		
Dibenzo(a,h)anthracene	800	U	440	U	330	U	9900	U		
Benzo(g,h,i)perylene	800	U	440	U	330	U	9900	U		

Analytical Results (Qualified Data)

Page ____ of ____

Case #: 28678 SDG : EE01B
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :

Number of Soil Samples : 8
Number of Water Samples : 0

Date :

Sample Number :	EE01B		EE01BMS		EE01BMSD		EE01C		EE01CDL	
Sampling Location :	X101		X101		X101		X102		X102	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/1/00		11/1/00		11/1/00		11/1/00		11/1/00	
Time Sampled :	11:30		11:30		11:30		11:30		11:30	
%Moisture :	0		0		0		29		29	
pH :	0.0		0.0		0.0		7.7		7.7	
Dilution Factor :	1.0		1.0		1.0		1.0		5.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	51	U	51	U	51	U	2.4	U	12	U
beta-BHC	51	U	71	J	70		2.4	U	12	U
delta-BHC	51	U	51	U	51	U	2.4	U	12	U
gamma-BHC (Lindane)	51	U	340		310		0.75	J	12	U
Heptachlor	51	U	360		310		2.4	U	12	U
Aldrin	51	U	380		310		2.4	U	0.50	J
Heptachlor epoxide	4.3	J	51	U	51	U	2.4	U	12	U
Endosulfan I	1.0	J	51	U	51	U	2.4	U	12	U
Dieldrin	99	U	760		630		4.7	U	0.17	J
4,4'-DDE	6.7	J	99	U	99	U	4.7	U	1.3	J
Endrin	27	J	820		700		2.8	J	1.8	J
Endosulfan II	99	U	99	U	99	U	4.7	U	23	U
4,4'-DDD	31	J	99	U	99	U	2.0	J	0.55	J
Endosulfan sulfate	99	U	99	U	99	U	4.7	U	1.1	J
4,4'-DDT	43	J	850		690		4.7	U	23	U
Methoxychlor	35	J	510	U	510	U	24	U	120	U
Endrin ketone	7.8	J	67	J	58	J	1.1	J	23	U
Endrin aldehyde	17	J	99	U	99	U	1.6	J	4.1	J
alpha-Chlordane	4.7	J	51	U	51	U	0.39	J	0.72	J
gamma-Chlordane	51	U	51	U	51	U	1.1	J	1.4	J
Toxaphene	5100	U	5100	U	5100	U	240	U	1200	U
Aroclor-1016	990	U	990	U	990	U	46	U	230	U
Aroclor-1221	2000	U	2000	U	2000	U	94	U	470	U
Aroclor-1232	990	U	990	U	990	U	46	U	230	U
Aroclor-1242	990	U	990	U	990	U	46	U	230	U
Aroclor-1248	990	U	990	U	990	U	46	U	230	U
Aroclor-1254	990	U	990	U	990	U	46	U	230	U
Aroclor-1260	990	U	990	U	990	U	46	U	230	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01B
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01CMS		EE01CMSD		EE01D		EE01DDL		EE01E	
Sampling Location :	X102		X102		X103		X103		X104	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/1/00		11/1/00		11/1/00		11/1/00		11/1/00	
Time Sampled :	11:30		11:30		12:50		12:50		13:10	
%Moisture :	29		29		16		16		21	
pH :	7.7		7.7		7.7		7.7		8.0	
Dilution Factor :	1.0		1.0		5.0		100.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2.4	U	2.4	U	10	U	200	U	2.2	U
beta-BHC	2.4	U	2.4	U	10	U	200	U	2.2	U
delta-BHC	2.4	U	2.4	U	10	U	200	U	2.2	U
gamma-BHC (Lindane)	16	J	18	J	10	U	200	U	2.2	U
Heptachlor	11	J	14	J	10	U	200	U	2.2	U
Aldrin	15		16		18		200	U	2.2	U
Heptachlor epoxide	2.4	U	2.4	U	9.8	J	200	U	2.2	U
Endosulfan I	2.4	U	2.4	U	3.6	J	200	U	2.2	U
Dieldrin	32		36		680		750	J	4.2	U
4,4'-DDE	1.9	J	1.8	J	300	J	330	J	4.2	U
Endrin	36		40		20	U	390	U	4.2	U
Endosulfan II	4.7	U	4.7	U	20	U	390	U	4.2	U
4,4'-DDD	4.7	U	4.7	U	3900		4100	J	4.2	U
Endosulfan sulfate	4.7	U	4.7	U	49	J	390	U	4.2	U
4,4'-DDT	37		38		60	J	390	U	4.2	U
Methoxychlor	24	U	24	U	100	U	2000	U	22	U
Endrin ketone	4.1	J	3.5	J	6.7	J	390	U	4.2	U
Endrin aldehyde	6.2		4.2	J	170		160	J	4.2	U
alpha-Chlordane	0.76	J	2.4	U	110	J	140	J	0.059	J
gamma-Chlordane	1.9	J	0.82	J	10	U	200	U	2.2	U
Toxaphene	240	U	240	U	1000	U	20000	U	220	U
Aroclor-1016	46	U	46	U	200	U	3900	U	42	U
Aroclor-1221	94	U	94	U	400	U	8000	U	85	U
Aroclor-1232	46	U	46	U	200	U	3900	U	42	U
Aroclor-1242	46	U	46	U	200	U	3900	U	42	U
Aroclor-1248	46	U	46	U	200	U	3900	U	42	U
Aroclor-1254	46	U	46	U	4100	J	5700	J	42	U
Aroclor-1260	46	U	46	U	200	U	3900	U	42	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01B
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01F		EE01G		EE01H		EE01J		PBLKSW	
Sampling Location :	X105		X106		X107		X108			
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/1/00		11/1/00		11/1/00		11/1/00			
Time Sampled :	15:00		15:20		16:00		16:45			
%Moisture :	8		21		18		25		N/A	
pH :	6.6		7.9		7.7		8.4			
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.9	U	2.2	U	2.1	U	0.61	J	1.7	U
beta-BHC	1.9	U	2.2	U	1.4	J	2.3	U	1.7	U
delta-BHC	1.9	U	2.2	U	2.1	U	2.3	U	1.7	U
gamma-BHC (Lindane)	1.9	U	2.2	U	0.23	J	2.3	U	1.7	U
Heptachlor	1.9	U	2.2	U	2.1	U	2.3	U	1.7	U
Aldrin	1.9	U	2.2	U	0.47	J	0.88	J	1.7	U
Heptachlor epoxide	1.9	U	2.2	U	2.1	U	0.055	J	1.7	U
Endosulfan I	1.9	U	2.2	U	2.1	U	2.3	U	1.7	U
Dieldrin	3.6	U	4.2	U	4.0	U	0.042	J	3.3	U
4,4'-DDE	3.6	U	4.2	U	4.0	U	0.32	J	3.3	U
Endrin	3.6	U	4.2	U	1.0	J	0.41	J	3.3	U
Endosulfan II	3.6	U	4.2	U	4.0	U	4.4	U	3.3	U
4,4'-DDD	3.6	U	4.2	U	4.0	U	4.4	U	3.3	U
Endosulfan sulfate	3.6	U	4.2	U	4.0	U	0.20	J	3.3	U
4,4'-DDT	3.6	U	4.2	U	4.0	U	4.4	U	3.3	U
Methoxychlor	18	U	22	U	21	U	1.7	J	17	U
Endrin ketone	3.6	U	4.2	U	1.7	J	0.19	J	3.3	U
Endrin aldehyde	3.6	U	4.2	U	1.4	J	0.28	J	3.3	U
alpha-Chlordane	1.9	U	2.2	U	2.1	U	0.25	J	1.7	U
gamma-Chlordane	1.9	U	2.2	U	2.1	U	2.3	U	1.7	U
Toxaphene	180	U	220	U	210	U	230	U	170	U
Aroclor-1016	36	U	42	U	40	U	44	U	33	U
Aroclor-1221	73	U	85	U	82	U	89	U	67	U
Aroclor-1232	36	U	42	U	40	U	44	U	33	U
Aroclor-1242	36	U	42	U	40	U	44	U	33	U
Aroclor-1248	36	U	42	U	40	U	44	U	33	U
Aroclor-1254	36	U	42	U	40	U	44	U	33	U
Aroclor-1260	36	U	42	U	40	U	44	U	33	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01B
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	PBLKTA									
Sampling Location :										
Matrix :	Soil									
Units :	ug/Kg									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	51	U								
beta-BHC	51	U								
delta-BHC	51	U								
gamma-BHC (Lindane)	51	U								
Heptachlor	51	U								
Aldrin	51	U								
Heptachlor epoxide	51	U								
Endosulfan I	51	U								
Dieldrin	99	U								
4,4'-DDE	99	U								
Endrin	99	U								
Endosulfan II	99	U								
4,4'-DDD	99	U								
Endosulfan sulfate	99	U								
4,4'-DDT	99	U								
Methoxychlor	510	U								
Endrin ketone	99	U								
Endrin aldehyde	99	U								
alpha-Chlordane	51	U								
gamma-Chlordane	51	U								
Toxaphene	5100	U								
Aroclor-1016	990	U								
Aroclor-1221	2000	U								
Aroclor-1232	990	U								
Aroclor-1242	990	U								
Aroclor-1248	990	U								
Aroclor-1254	990	U								
Aroclor-1260	990	U								

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: EE01B CERCLIS No: ILD041869023

Case No: 28678 Site Name/Location: Chark Oil

Contractor or EPA Lab: CompuChem Data User: IEPA

No. of Samples: 8 Date Sampled or Date Received: 11-20-00

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 8 No. of samples received: 8

Received by: Ella M. Dixon / ESAT Date: 11-20-00

Received by LSSS: Ella M. Dixon / ESAT Date: 11-20-00

Review started: 11-27-00 Reviewer Signature: [signature]

Total time spent on review: 10.5 Date review completed: 12-1-00

Copied by: Ella M. Dixon / ESAT Date: 12-14-00

Mailed to user by: Ella M. Dixon / ESAT Date: 12-14-00

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 11-20-00

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Clark Oil (IL)

CASE NUMBER: 28678 SDG NUMBER: EE01B

Number and Type of Samples: 8 (SOIL)

Sample Numbers: EE01B-H, EE01J

Laboratory: Compuchem Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

US EPA Contract Laboratory Program
Generic Traffic Report/Chain-of-Custody Record

9:20

Case No. 28678
DAS No.
SDG No. EE01B

L 29

Date Shipped: 11/1/00
Carrier Name: Fed Ex
Airbill: 3497988034
Shipped to:
Liberty Analytical
501 Madison Avenue
Cary NC 27513
(919) 379-4080

Date Received/Received by: 11/2/00 M. Stow
Lab Contract No.: 68W99070 **Unit Price:** 467

Transfer To:
Date Received/Received By:
Contract No.: **Price:**

Sampler (Signature) Mark Wagner 11/1/00

Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
EE01B	Soil/Sediment / Mark Wagner	L/G	Dr (21)	5-59605 (Ice Only) (1)	X101	11/01/2000 11:30		Good
EE01C	Soil/Sediment / Mark Wagner	L/G	Dr (21)	5-59609 (Ice Only) (1)	X102	11/01/2000 11:30		
EE01D	Soil/Sediment / Mark Wagner	L/G	Dr (21)	5-59612 (Ice Only) (1)	X103	11/01/2000 12:50		
EE01E	Soil/Sediment / Mark Wagner	L/G	Dr (21)	5-59616 (Ice Only) (1)	X104	11/01/2000 13:10		
EE01F	Soil/Sediment / Mark Wagner	L/G	Dr (21)	59620 (Ice Only) (1)	X105	11/01/2000 15:00		
EE01G	Soil/Sediment / Mark Wagner	L/G	Dr (21)	5-59624 (Ice Only) (1)	X106	11/01/2000 15:20		
EE01H	Soil/Sediment / Mark Wagner	L/G	Dr (21)	5-59628 (Ice Only) (1)	X107	11/01/2000 16:00		
EE01J	Soil/Sediment / Mark Wagner	L/G	Dr (21)	5-59632 (Ice Only) (1)	X108	11/01/2000 16:45		SDG Final Sample

ORIGINAL

TEMP. BLK NOT INCLUDED (FE) 11/2/00

Shipment for Case Complete? N	Sample(s) to be used for Laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number	Cooler Temperature Upon Receipt: 47772 6°
Analysis Key Below: Dr=Dry Weight	Concentration: L = Low M = Low/Medium H = High	Type/Designate: Composite = C Grab = G		Custody Seal Intact? Y / Shipment Iced? D. ICE

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to. Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr, Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-110100-0002

F2V4.0

USEPA Contract Laboratory Program
Organic Traffic Report

9:25

DAS No.
SDG No. EE01B, EE01K

30

ipped: 11/2/00
Name: Fed Ex
3497988045
d to:
Analytical
idison Avenue
C 27513
79-4080

Date Received/Received by: 11/3/00 M Storm
Lab Contract No.: 68W99070 Unit Price: 467.00

Transfer To:
Date Received/Received By:
Contract No.: Price:

Sampler (Signature) Mark Wagner 11/2/00

Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:

NIC LE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21)	5-59603 (Ice Only) (1)	X101	11/01/2000 11:30	MEE01B	Good
	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21)	5-59607 (Ice Only) (1)	X102	11/01/2000 11:30	MEE01C	
)	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21)	5-59610 (Ice Only) (1)	X103	11/01/2000 12:50	MEE01D	
E	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21)	5-59614 (Ice Only) (1)	X104	11/01/2000 13:10	MEE01E	
F	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21)	59618 (Ice Only) (1)	X105	11/01/2000 15:00	MEE01F	
G	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21)	59622 (Ice Only) (1)	X106	11/01/2000 15:20	MEE01G	
IH	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21)	5-59626 (Ice Only) (1)	X107	11/01/2000 16:00	MEE01H	
1J	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21)	5-59630 (Ice Only) (1)	X108	11/01/2000 16:45	MEE01J	SDG Final Sample
1K	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	59634 (Ice Only), 59635 (Ice Only) (2)	X109	11/02/2000 08:15	MEE01K	
)1L	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	59638 (Ice Only), 59639 (Ice Only) (2)	X110	11/02/2000 09:25	MEE01L	
01M	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	59642 (Ice Only), 59643 (Ice Only) (2)	X111	11/02/2000 09:35	MEE01M	
01N	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	59646 (Ice Only), 59647 (Ice Only) (2)	X112	11/02/2000 10:05	MEE01N	
:01P	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	59650 (Ice Only), 59651 (Ice Only) (2)	X113	11/02/2000 11:05	MEE01P	
:01Q	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	5-59654 (Ice Only), 5-59655 (Ice Only) (2)	X114	11/02/2000 12:00	MEE01Q	
E01R	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	59658 (Ice Only), 59659 (Ice Only) (2)	X115	11/02/2000 12:15	MEE01R	
E01S	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	59662 (Ice Only), 59663 (Ice Only) (2)	X116	11/02/2000 13:25	MEE01S	

ORIGINAL

Shipment for Case Complete? Y	Sample(s) to be used for Laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number 47774+47773	Cooler Temperature Upon Receipt: 8° no Temp Bl

Analysis Key Below: Concentration: L = Low M = Low/Medium H = High Type/Designate: Composite = C Grab = G Custody Seal Intact? Shipment Iced?
BNA=CLP TCL Semivolatiles, PEST=CLP TCL Pesticide/PCBs, VOA=CLP TCL Volatiles

PR provides preliminary results Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr, Reston, VA 20191-3436 Phone 703/264-9348 Fax 703/264-9212

TR Numb-- 05-405012729-110200-0001

FIV4.0

US EPA Contract Laboratory Program
Organic Traffic Report

9:20

Case No. 28678
DAS No.
SDG No. EE01B

L

28

Date Shipped: 11/1/00 **Carrier Name:** Fed Ex **Airbill:** 3497988034 **Shipped to:** Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	**Date Received/Received by:** 11/2/00 M Stey **Lab Contract No.:** 68W99070 **Unit Price:** 467.00 **Transfer To:** **Date Received/Received By:** **Contract No.:** **Price:**	**Sampler (Signature)** Mark Wagner 11/1/00 **Relinquished By:** / **Date / Time** / **Received By:** **Relinquished By:** / **Date / Time** / **Received By:** **Relinquished By:** / **Date / Time** / **Received By:**	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
EE01B	Soil/Sediment / Mark Wagner	L/G	VOA (21)	5-59604 (Ice Only) (1)	X101	11/01/2000 11:30	MEE01B	Good
EE01C	Soil/Sediment / Mark Wagner	L/G	VOA (21)	5-59608 (Ice Only) (1)	X102	11/01/2000 11:30	MEE01C	
EE01D	Soil/Sediment / Mark Wagner	L/G	VOA (21)	5-59611 (Ice Only) (1)	X103	11/01/2000 12:50	MEE01D	
EE01E	Soil/Sediment / Mark Wagner	L/G	VOA (21)	5-59615 (Ice Only) (1)	X104	11/01/2000 13:10	MEE01E	
EE01F	Soil/Sediment / Mark Wagner	L/G	VOA (21)	59619 (Ice Only) (1)	X105	11/01/2000 15:00	MEE01F	
EE01G	Soil/Sediment / Mark Wagner	L/G	VOA (21)	59623 (Ice Only) (1)	X106	11/01/2000 15:20	MEE01G	
EE01H	Soil/Sediment / Mark Wagner	L/G	VOA (21)	5-59627 (Ice Only) (1)	X107	11/01/2000 16:00	MEE01H	
EE01J	Soil/Sediment / Mark Wagner	L/G	VOA (21)	5-59631 (Ice Only) (1)	X108	11/01/2000 16:45	MEE01J	SDG Final Sample

ORIGINAL

TEMP. BLK not included -

Shipment for Case Complete? N	**Sample(s) to be used for Laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number**	**Cooler Temperature Upon Receipt:** 47772	6°
Analysis Key Below: VOA=CLP TCL Volatiles	**Concentration:** L = Low M = Low/Medium H = High	**Type/Designate:** Composite = C Grab = G		**Custody Seal Intact?** Y	**Shipment Iced?** D. ICE

11/2/00

PR provides preliminary results. Requests for preliminary results will increase analytical costs
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr, Reston, VA. 20191-3436 Phone: 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-110100-0001

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NOV 2 0 2000

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
CASE #28678
SDG #EE01B
CONTRACT # 68W99070

SAMPLE IDENTIFICATIONS: EE01B EE01C EE01D EE01E EE01F EE01G EE01H EE01J

The eight soil samples listed above were received intact in Encore samplers, at 6, and 8 degrees C, with proper documentation, in sealed shipping containers, on November 02, and 03, 2000. All samples were submitted for volatile, semivolatile, and pesticide-PCB analysis. The samples were prepared and analyzed following Contract Laboratory Protocol(CLP) Statement of Work(SOW), document OLM04.2. This portion of the SDG narrative deals with the volatile fractions only. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for Case # 28678, SDG # EE01B are included in the sample data sections. Temperature blanks were not received in all coolers however the procedure outlined for temperature measurement is explained by a quality assurance notice in the narrative section. Sample EE01B was received as a black tar like substance completely miscible in methylene chloride. SMO was contacted, as this sample is only analyzeable by dilute and shoot methods. The region concurred and the semivolatile and pesticide analyses were conducted by dilute and shoot. A copy of the e-mail accompanies this narrative. It was observed that since that the whole sample component of EE01B was entirely miscible in an organic solvent that dry weight procedures would probably release sample component rather than moisture. For this reason no dry weight value was used in calculating sample results for this sample.
Analysis holding time requirements were met for all of these samples, and sample dry weight values ranged from 8 to 29 percent. The Target Compound List(TCL) analytes acetone, methylcyclohexane, benzene, ethylbenzene, and xylenes, were the most frequently identified above the Contract Required Quantitation Limit(CRQL). Based on odor, samples EE01G, and EE01H were prepared and analyzed as medium level samples, and we have only reported a medium level run as both samples contained target analytes well above the CRQL. Sample EE01H failed one SMC recovery in both original and repeat analysis, and we have reported and billed for both runs. Based on screen data, sample EE01J was analyzed at a 1.67X dilution and contained methylcyclohexane in the upper half of the calibration, and we have only reported the one diluted analysis.

Numerous reportable Tentatively Identified Compounds(TICs) were present in the majority of samples and were generally characterized as various substituted benzenes, substituted naphthalenes, PAHs, and peaks of unknown characterization.
All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.
The system monitoring compounds (SMCs) met recovery criteria in the analyses of these samples(except as noted above), and all of the internal standards met retention time and response criteria in the analyses of these samples.
The associated method blanks met all quality control criteria, and did not contain any target analytes above the CRQL.
The asssociated storage blank met all QC criteria, and also did not contain any TCL analytes above the CRQL.

Low level duplicate matrix spikes were generated from the original EE01C as chosen by the laboratory, and met all precision criteria, however one recovery limit was exceeded in the matrix spike duplicate. Acetone exceeded calibration limits in both matrix spikes, and due to an operator oversight no instrument blank was analyzed between these concurrently analyzed samples. Due to the fact that acetone did not exceed calibration limits in the original sample we conclude the sample to be inhomogeneous and are reporting the data with reference to this qualifier.

The medium level matrix spikes generated from EE01G met all QC spike compound precision and accuracy criteria, however one SMC failed high for recovery in the matrix spike duplicate.

Manual quantitations were performed on the process files in some of the the associated initial, and continuing calibration(s) and in samples EE01GMS, EE01E, EE01C, EE01F, EE01CMS, EE01CMSD, EE01B, and EE01J. The reasons have been coded with explanations provided in the notice included in the narrative section of this SDG.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Roy Sutton
Case Reviewer
November 14, 2000

COMPUCHEM
A division of Liberty Analytical Corporation
501 Madison Ave.
Cary, NC 27513

SDG NARRATIVE

CASE #28678
SDG #EE01B
CONTRACT #68W99070

SAMPLE IDENTIFICATIONS:

EE01B EE01C EE01D EE01E EE01F EE01G EE01H EE01J

This portion of the SDG narrative deals with the semivolatile fractions for the eight samples above only. For the receiving information associated with these samples, please refer to the volatile SDG narrative.

All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices for Case #28678, SDG #EE01B are included in the sample data sections.

SEMIVOLATILE
The semivolatile fractions were initially extracted and analyzed within the required holding time as medium level soils. Due to the results of these analyses, all of the samples except EE01B were re-extracted and reanalyzed as low level soils. Sample EE01B was analyzed using the Waste Dilution extraction (Method 3580A) (Dilute-n-Shoot).

The percent moisture values for the low level soil samples ranged from 8% to 29% and the pH values ranged from 7.7 to 8.4.

One to two Target Compound List (TCL) analytes were detected with concentrations above the Contract Required Quantitation Limit (CRQL) in five of the samples. These analytes were di-n-octylphthalate, 2-methylnaphthalene, bis(2-ethylhexyl)phthalate and naphthalene.

In the continuing calibration standards associated with these samples, benzo(b)fluoranthene and benzo(k)fluoranthene were chromatographically resolved and were identified as separate peaks with different retention times. However, in samples EE01D, EE01CMS and EE01CMSD, the isomers could not be chromatographically resolved. This is indicated with "X" flags on the Form Is.

Ten to thirty-two Tentatively Identified Compounds (TIC) were detected in the samples. These TICs were assessed as unknowns, naphthalenes, thiophenes, PAHs, carboxylic acids, indenes, benzenes and phthalates. Other TICs were detected and assessed as unknown alkanes in some of

the samples. The TICs that were characterized as alkanes have been summarized on the Alkane Narrative Report that is located in the narrative section of the data package. The TIC spectra for the alkanes are located in the data section for the individual samples.
In the analysis of EE01F, one or more TICs were assessed as TCL analytes. However, the retention times of these TICs did not compare well to the analyte retention times in the associated Continuing Calibration standard. In accordance with the EPA CLP Statement of Work, Document number OLM04.2, TICs at or above 85% purity should be assessed as the compound [page D-46/SVOA; section 11.1.2.5.6].

Due to the results of a screen analysis, EE01H was analyzed at a 2x dilution. The screen Reconstructed Ion Chromatogram (RIC) is included in the sample data package immediately following the RIC for the sample's reportable run.

QC SUMMARY
All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The surrogates met recovery criteria for the semivolatile fractions, with some exceptions. The recoveries of 2-fluorobiphenyl were flagged as outliers in EE01H and the duplicate matrix spikes EE01BMS and EE01BMSD.

The internal standards met area response and retention time criteria for the semivolatile samples, with some exceptions. In the analyses of the low level duplicate matrix spikes, EE01CMS/MSD, the area responses of d12-chrysene and d12-perylene varied considerably from the responses in the associated Continuing Calibration. This low area response trend was also observed in the original sample used to prepare the MS and MSD. The failing area responses in the MS and MSD have been attributed to interferences present in the matrix of the original sample.

Duplicate matrix spikes were prepared and analyzed with the low level soils and the dilute-n-shoot soil. The low level soil duplicate matrix spikes met accuracy and precison criteria, with one exception. The recovery of pyrene was flagged as an outlier in the MS. The dilute-n-shoot duplicate matrix spikes met accuracy and precision criteria with some exceptions. The recoveries of n-nitroso-di-n-propylamine and pyrene were flagged as outliers in the MS and the recoveries of n-nitroso-di-n-propylamine, acenaphthene, 2,4-dinitrotoluene and pyrene were flagged as outliers in the MSD.

The associated blanks met Quality Control criteria.

In the analyses of the Initial and Continuing Calibration standards and all of the samples, manual quantitations were performed. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on

diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature:

Patricia B. Hopkins

Patricia B. Hopkins
Data Analyst II
14 November 2000

Note: This report is paginated for reference and accountability in numerical sequence.

CompuChem
a division of Liberty Analytical Corp.
501 Madison Avenue
Cary, North Carolina 27513

SDG NARRATIVE

CASE: 28678
SDG: EE01B
CONTRACT: 68W99070

SAMPLE IDENTIFICATIONS: EE01B, EE01C, EE01D, EE01E, EE01F, EE01G, EE01H, EE01J

This portion of the SDG narrative covers only the pesticide fractions of the eight (8) samples listed above. For receiving information pertaining to these samples, please refer to the portion of the SDG narrative that covers the volatile fractions.

PESTICIDES

Extraction and analysis holding time requirements were met for these samples. The pesticide Target Compound List (TCL) analytes aldrin, dieldrin, 4,4'-DDE, 4,4'-DDD, endosulfan sulfate, 4,4'-DDT, endrin aldehyde, and alpha-chlordane were confirmed by dual column analysis at a concentration above the Contract Required Quantitation Limit (CRQL) in EE01D. The PCB TCL analyte Aroclor 1254 was confirmed by dual column analysis at a concentration above the CRQL in EE01D.

Due to the concentrations of TCL analytes in the pesticide fraction, dieldrin, 4,4'-DDD, and Aroclor 1254 were confirmed by GC/MS analysis in EE01D. A GC/MS confirmation analysis was also performed for 4,4'-DDE and 4,4'-DDT due to the possible presence of these compounds in the Tentatively Identified Compounds (TICs) of the semivolatile fraction. The 'Y' flag is used to denote compounds that were not successfully confirmed by GC/MS analysis. The same raw data is provided for 'Y' flagged analytes that is required for successful confirmations.

Manual quantitations were performed on several of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

EE01B was soluble in solvent. Therefore the sample was prepared following "dilute and shoot" methodology rather than Low Level Solid pesticide extraction protocol. Approximately one gram of raw sample was extracted with a final volume of 5.0 mL of extract. The extract was processed through the GPC and florisil clean-up procedures. Duplicate matrix spikes were prepared using EE01B as the original and following the same "dilute and shoot" methodology. These duplicate matrix spikes met all advisory accuracy and precision criteria.

Due to the nature of the sample, no percent moisture determination was performed for EE01B. Therefore the results are reported on a wet weight basis.

In the initial undiluted analysis of EE01C, the on-column amount of the pesticide TCL analyte gamma-chlordane exceeded the instrument's calibration range on one column. The sample was reanalyzed at a 5X dilution to bring the amount into range. We have reported and billed for both analyses of EE01C.

Due to the results of a screen of the sample, EE01D was initially analyzed at a 5X dilution. In this analysis, the on-column amounts of dieldrin and 4,4'-DDD exceeded the instrument's calibration range. The sample was reanalyzed at a 100X dilution to bring the amounts into range. We have reported and billed for both analyses of EE01D.

All of the surrogates met recovery criteria with a few exceptions. The recovery of tetrachloro-m-xylene (TCX) fell above the quality control criteria limit on one column in the analyses of EE01H and one of the method blanks. The recovery of decachlorobiphenyl (DCB) fell above the quality control criteria limit on the CLPEST2 column in the analysis of EE01H. All of the surrogates met retention time criteria in the analyses of these samples.

The associated method blanks met all quality control criteria with the exception of the surrogate recovery noted above. No pesticide or PCB TCL analytes were confirmed in the method blanks.

EE01C was used as the original to prepare the Low Level Solid (30 gram extraction) duplicate matrix spikes. The associated duplicate matrix spikes met all advisory accuracy and precision criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions listed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Stephanie W Winfield 11-15-00

Stephanie W. Winfield
Technical Reviewer
November 15, 2000

13A

ALKANE NARRATIVE REPORT
Report date : 11/13/2000
SDG: EE01B

Client Sample ID: EE01G Lab Sample ID: EE01B-6 File ID: EE01B-6RA

Compound	RT	Est. Conc.	Q
Branched Alkane	4.46	5547	J
Branched Alkane	6.89	7177	J
Straight-Chain Alkane	7.28	7118	J
Cyclic Alkane	8.01	16420	J
Branched Alkane	8.82	17200	J
Branched Alkane	8.90	19680	J
Branched Alkane	9.03	9910	J
Branched Alkane	9.34	24450	J
Branched Alkane	10.75	5844	J
Branched Alkane	10.92	4082	J
Branched Alkane	11.03	5372	J
Branched Alkane	11.20	3987	J
Branched Alkane	12.40	4031	J
Branched Alkane	12.83	8824	J
Branched Alkane	12.95	4631	J
Branched Alkane	13.36	4590	J
Branched Alkane	14.10	31680	J
Unknown Alkane	14.45	5197	J
Branched Alkane	14.68	7755	J
Branched Alkane	15.05	8213	J

Client Sample ID: EE01H Lab Sample ID: EE01B-7 File ID: EE01B-7RA51

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	3.24	4412	J
Branched Alkane	4.45	6062	J
Straight-Chain Alkane	4.96	2087	J
Branched Alkane	6.53	4559	J
Branched Alkane	6.88	1990	J
Straight-Chain Alkane	7.27	1832	J
Cyclic Alkane	8.00	3542	J
Branched Alkane	8.81	9686	J
Branched Alkane	9.01	4227	J
Cyclic Alkane	9.33	4541	J
Branched Alkane	11.00	4448	J
Branched Alkane	11.19	3639	J
Straight-Chain Alkane	11.72	3459	J
Cyclic Alkane	12.01	1907	J
Branched Alkane	12.40	3984	J
Branched Alkane	12.82	9032	J
Branched Alkane	12.94	4263	J
Branched Alkane	13.75	2288	J
Branched Alkane	14.15	5506	J
Straight-Chain Alkane	15.28	19060	J

Client Sample ID: EE01HRE Lab Sample ID: EE01B-7 File ID: EE01B-7R2A51

Compound	RT	Est. Conc.	Q
Unknown Alkane	2.85	1236	J
Unknown Alkane	3.27	5828	J
Branched Alkane	4.47	7457	J
Straight-Chain Alkane	5.00	2832	J
Branched Alkane	6.56	6515	J

Branched Alkane	6.91	2805	J
Straight-Chain Alkane	7.29	2731	J
Cyclic Alkane	8.03	4764	J
Branched Alkane	8.84	14070	J
Branched Alkane	9.05	5472	J
ranched Alkane	11.04	5636	J
Branched Alkane	11.21	4942	J
Unknown Alkane	11.74	6934	J
Cyclic Alkane	12.03	2673	J
Branched Alkane	12.29	1448	J
Branched Alkane	12.41	5165	J
Branched Alkane	12.96	5563	J
Branched Alkane	13.76	3408	J
Branched Alkane	14.16	6534	J
Straight-Chain Alkane	15.29	20220	J

Client Sample ID: EE01E Lab Sample ID: EE01B-4 File ID: EE01B-4A56

Compound	RT	Est. Conc.	Q
Cyclic Alkane	13.88	5.97	J

Client Sample ID: EE01F Lab Sample ID: EE01B-5 File ID: EE01B-5R2A56

Compound	RT	Est. Conc.	Q
Branched Alkane	4.63	479.7	J
Branched Alkane	8.84	1637	J
Branched Alkane	11.49	1205	J
Branched Alkane	12.11	1693	J
Branched Alkane	12.63	474.4	J
ranched Alkane	13.76	439.9	J
Branched Alkane	14.52	469.6	J
Branched Alkane	14.87	577.3	J
Branched Alkane	15.13	700.1	J
Branched Alkane	15.23	356.2	J
Branched Alkane	15.35	488.3	J
Branched Alkane	15.46	449.9	J
Branched Alkane	15.98	910.2	J
Branched Alkane	16.22	815.4	J
Branched Alkane	16.52	1006	J
Straight-Chain Alkane	16.75	516.4	J
Branched Alkane	16.87	405.7	J
Branched Alkane	16.99	765.5	J
Branched Alkane	17.38	431.0	J
Branched Alkane	18.02	618.2	J

Client Sample ID: EE01B Lab Sample ID: EE01B-1 File ID: EE01B-1R2A56

Compound	RT	Est. Conc.	Q
Unknown Alkane	5.31	34.88	J
Branched Alkane	7.20	16.95	J
Branched Alkane	15.51	18.11	J
Straight-Chain Alkane	16.21	17.36	J
Straight-Chain Alkane	17.31	17.86	J
Branched Alkane	18.39	13.96	J

Client Sample ID: EE01J Lab Sample ID: EE01B-8 File ID: EE01B-8D2A56

Compound	RT	Est. Conc.	Q

Branched Alkane	4.65	187.9	J
Straight-Chain Alkane	5.33	192.5	J
Branched Alkane	7.23	1134	J
Branched Alkane	7.63	660.9	J
Straight-Chain Alkane	8.09	551.8	J
Branched Alkane	8.90	739.7	J
Branched Alkane	9.96	1987	J
Branched Alkane	10.12	400.6	J
Branched Alkane	10.45	1160	J
Unknown Alkane	11.55	154.2	J
Branched Alkane	12.00	396.7	J
Branched Alkane	12.15	317.8	J
Unknown Alkane	18.06	131.7	J
Branched Alkane	18.51	376.5	J
Branched Alkane	19.02	603.4	J
Branched Alkane	19.95	521.3	J
Unknown Alkane	20.75	338.4	J

ALKANE NARRATIVE REPORT
Report date : 11/13/2000
SDG: EE01B

Client Sample ID: EE01B Lab Sample ID: EE01B-9 File ID: EE01B-9A70

Compound	RT	Est. Conc.	Q
Branched Alkane	9.19	3159	J
Branched Alkane	9.78	3198	J
Branched Alkane	13.46	3209	J
Branched Alkane	19.26	3171	J

Client Sample ID: EE01D Lab Sample ID: EE01B-11 File ID: EE01B-11B70

Compound	RT	Est. Conc.	Q
Branched Alkane	18.58	287.3	J
Straight-Chain Alkane	18.63	399.5	J
Straight-Chain Alkane	19.29	915.6	J
Unknown Alkane	19.93	754.7	J
Unknown Alkane	20.54	587.8	J
Unknown Alkane	20.76	529.8	J
Unknown Alkane	21.69	921.3	J
Straight-Chain Alkane	25.09	652.3	J

Client Sample ID: EE01E Lab Sample ID: EE01B-12 File ID: EE01B-12B70

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	23.24	120.3	J
Straight-Chain Alkane	23.72	603.7	J
Straight-Chain Alkane	24.19	291.1	J
Unknown Alkane	25.08	199.3	J

Client Sample ID: EE01F Lab Sample ID: EE01B-13 File ID: EE01B-13B70

Compound	RT	Est. Conc.	Q
Branched Alkane	7.27	2202	J
Branched Alkane	7.60	1068	J
Branched Alkane	7.83	450.7	J
Unknown Alkane	9.12	465.1	J
Branched Alkane	9.61	1600	J
Branched Alkane	11.84	724.7	J

Client Sample ID: EE01G Lab Sample ID: EE01B-14 File ID: EE01B-14B70

Compound	RT	Est. Conc.	Q
Branched Alkane	7.26	952.7	J
Branched Alkane	7.39	234.7	J
Branched Alkane	7.56	604.0	J
Branched Alkane	7.83	235.3	J
Unknown Alkane	9.12	279.0	J
Branched Alkane	9.61	352.9	J
Branched Alkane	10.05	227.6	J
Branched Alkane	11.16	216.5	J
Branched Alkane	11.84	372.3	J

Client Sample ID: EE01J Lab Sample ID: EE01B-16 File ID: EE01B-16B70

Compound	RT	Est. Conc.	Q
Branched Alkane	13.29	730.2	J
Branched Alkane	14.43	722.8	J
Unknown Alkane	14.68	533.0	J
Cyclic Alkane	15.12	954.3	J
Unknown Alkane	15.24	1050	J
Cyclic Alkane	16.03	385.6	J
Branched Alkane	16.81	813.4	J
Branched Alkane	17.25	1199	J
Straight-Chain Alkane	17.54	478.1	J
Unknown Alkane	18.01	554.9	J
Unknown Alkane	23.74	1774	J

Client Sample ID: EE01C Lab Sample ID: EE01B-10 File ID: EE01B-10B70

Compound	RT	Est. Conc.	Q
Branched Alkane	17.24	420.1	J
Straight-Chain Alkane	18.58	408.8	J
Straight-Chain Alkane	20.15	523.0	J
Straight-Chain Alkane	20.56	489.1	J
Straight-Chain Alkane	21.13	688.0	J
Straight-Chain Alkane	23.26	578.8	J

Client Sample ID: EE01H Lab Sample ID: EE01B-15 File ID: EE01B-15D2A7(

Compound	RT	Est. Conc.	Q
Unknown Alkane	9.89	1582	J
Branched Alkane	11.84	1959	J
Straight-Chain Alkane	12.36	2313	J
Branched Alkane	12.56	1923	J
Branched Alkane	13.31	3523	J
Cyclic Alkane	14.08	1169	J
Branched Alkane	14.24	895.9	J
Unknown Alkane	14.29	1016	J
Branched Alkane	14.42	1753	J
Cyclic Alkane	14.59	695.4	J
Straight-Chain Alkane	14.64	2222	J
Cyclic Alkane	15.12	2110	J
Unknown Alkane	15.23	2486	J
Straight-Chain Alkane	15.57	1409	J

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Level:(low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKRO	98	101	95		0
02	EE01E	104	104	95		0
03	EE01C	103	99	95		0
04	EE01F	109	108	86		0
05	VBLKRP	93	100	92		0
06	EE01D	98	90	91		0
07	EE01B	120	84	94		0
08	EE01J	95	91	89		0
09	EE01CMS	103	75	90		0
10	EE01CMSD	117	86	93		0
11	VBLKRT	98	99	96		0
12	VHBLKRO	102	103	99		0
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Level:(low/med) MED

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	VBLKRR	106	104	106		0
02	EE01G	101	107	89		0
03	EE01H	97	116*	75		1
04	EE01HRE	103	115*	74		1
05	VBLKTT	100	88	103		0
06	EE01GMS	104	112	108		0
07	EE01GMSD	91	118*	96		1
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix Spike - EPA Sample No.: EE01C Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	70.42	0.00	67.61	96	59-172
Trichloroethene	70.42	0.00	67.34	96	62-137
Benzene	70.42	0.00	76.08	108	66-142
Toluene	70.42	3.50	101.5	139	59-139
Chlorobenzene	70.42	0.00	73.29	104	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	70.42	70.84	101	5	22	59-172
Trichloroethene	70.42	72.16	102	6	24	62-137
Benzene	70.42	78.10	111	3	21	66-142
Toluene	70.42	102.5	141*	1	21	59-139
Chlorobenzene	70.42	77.60	110	6	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 1 out of 10 outside limits

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix Spike - EPA Sample No.: EE01G Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	5882	0.00	5550	94	59-172
Trichloroethene	5882	0.00	4865	83	62-137
Benzene	5882	203.7	5844	96	66-142
Toluene	5882	0.00	5286	90	59-139
Chlorobenzene	5882	0.00	5468	93	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	5882	6665	113	18	22	59-172
Trichloroethene	5882	5231	89	7	24	62-137
Benzene	5882	5868	96	0	21	66-142
Toluene	5882	4781	81	11	21	59-139
Chlorobenzene	5882	5569	95	2	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKRO

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Lab File ID: WG6716-1A56 Lab Sample ID: WG6716-1

Date Analyzed: 11/06/00 Time Analyzed: 1728

GC Column: EQUITY624 5ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: F50056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE01E	EE01B-4	EE01B-4A56	1852
02	EE01C	EE01B-2	EE01B-2RA56	1927
03	EE01F	EE01B-5	EE01B-5R2A56	2038
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKRP

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Lab File ID: WG6716-2A56 Lab Sample ID: WG6716-2

Date Analyzed: 11/07/00 Time Analyzed: 1142

GC Column: EQUITY624 5ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: F50056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE01D	EE01B-3	EE01B-3RA56	1229
02	EE01B	EE01B-1	EE01B-1R2A56	1259
03	EE01J	EE01B-8	EE01B-8D2A56	1400
04	EE01CMS	WG6716-4	WG6716-4A56	1500
05	EE01CMSD	WG6716-5	WG6716-5A56	1529
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKRT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Lab File ID: WG6717-3A56 Lab Sample ID: WG6717-3

Date Analyzed: 11/10/00 Time Analyzed: 0946

GC Column: EQUITY624 5ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: F50056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VHBLKRO	WG6716-6	WG6716-6RA56	1027
02				
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COMMENTS:

FORM IV VOA OLM04.2

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKRR

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Lab File ID: WG6717-1A51 Lab Sample ID: WG6717-1

Date Analyzed: 11/06/00 Time Analyzed: 1104

GC Column: EQUITY624 5ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50051

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE01G	EE01B-6	EE01B-6RA51	1639
02	EE01H	EE01B-7	EE01B-7RA51	1708
03	EE01HRE	EE01B-7	EE01B-7R2A51	1804
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKTT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Lab File ID: WG6771-1A51 Lab Sample ID: WG6771-1

Date Analyzed: 11/08/00 Time Analyzed: 1129

GC Column: EQUITY624 5ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50051

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE01GMS	WG6716-7	WG6716-7RA51	1407
02	EE01GMSD	WG6716-8	WG6716-8RA51	1435
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COMMENTS:

FORM IV VOA OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKRO

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6716-1A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	2	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKRO

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6716-1A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (ul) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKRO

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01b

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6716-1A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (ul) Soil Aliquot Volume: _____ (uL)

Number TICs found: 4

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	13.55	8	NJ
2. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	16.17	34	NJ
3.	LABORATORY ARTIFACT	17.91	88	J
4.	LABORATORY ARTIFACT	19.46	34	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKRP

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6716-2A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	1	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKRP

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6716-2A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (ul) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKRP

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6716-2A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (ul) Soil Aliquot Volume: _____ (uL)

Number TICs found: 4

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 7446-09-5	SULFUR DIOXIDE	3.06	72	NJ
2.	LABORATORY ARTIFACT	16.36	30	J
3.	LABORATORY ARTIFACT	18.12	110	J
4.	LABORATORY ARTIFACT	19.69	20	J
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKRT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6717-3

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6717-3A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/10/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (ul) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	7	J
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	3	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKRT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6717-3

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6717-3A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/10/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (ul) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKRT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6717-3

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6717-3A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/10/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (ul) Soil Aliquot Volume: _____ (uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	13.40	7	NJ
2. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	15.98	50	NJ
3.	LABORATORY ARTIFACT	17.68	110	J
4.	LABORATORY ARTIFACT	19.20	32	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKRO

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-6

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6716-6RA56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. _____ Date Analyzed: 11/10/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (ul) Soil Aliquot Volume: _____ (uL)

11/27

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10 ~~2~~	JB
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10 ~~2~~	JB
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKRO

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-6

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6716-6RA56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. _____ Date Analyzed: 11/10/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKRO

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-6

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6716-6RA56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. _____ Date Analyzed: 11/10/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (ul) Soil Aliquot Volume: _____ (uL)

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	13.42	6	NJB
2. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	15.98	45	NJB
3.	LABORATORY ARTIFACT	17.68	100	JB
4.	LABORATORY ARTIFACT	19.20	28	JB
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKRR

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0_5

Matrix: (soil/water) SOIL Lab Sample ID: WG6717-1

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6717-1A51

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1300	U
74-87-3	Chloromethane	1300	U
75-01-4	Vinyl Chloride	1300	U
74-83-9	Bromomethane	1300	U
75-00-3	Chloroethane	1300	U
75-69-4	Trichlorofluoromethane	1300	U
75-35-4	1,1-Dichloroethene	1300	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1300	U
67-64-1	Acetone	1300	U
75-15-0	Carbon Disulfide	1300	U
79-20-9	Methyl Acetate	1300	U
75-09-2	Methylene Chloride	1300	U
156-60-5	trans-1,2-Dichloroethene	1300	U
1634-04-4	Methyl tert-Butyl Ether	1300	U
75-34-3	1,1-Dichloroethane	1300	U
156-59-2	cis-1,2-Dichloroethene	1300	U
78-93-3	2-Butanone	190	J
67-66-3	Chloroform	1300	U
71-55-6	1,1,1-Trichloroethane	1300	U
110-82-7	Cyclohexane	1300	U
56-23-5	Carbon Tetrachloride	1300	U
71-43-2	Benzene	1300	U
107-06-2	1,2-Dichloroethane	1300	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKRR

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6717-1

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6717-1A51

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	1300	U
108-87-2	Methylcyclohexane	1300	U
78-87-5	1,2-Dichloropropane	1300	U
75-27-4	Bromodichloromethane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
108-10-1	4-Methyl-2-Pentanone	140	J
108-88-3	Toluene	1300	U
10061-02-6	trans-1,3-Dichloropropene	1300	U
79-00-5	1,1,2-Trichloroethane	1300	U
127-18-4	Tetrachloroethene	1300	U
591-78-6	2-Hexanone	220	J
124-48-1	Dibromochloromethane	1300	U
106-93-4	1,2-Dibromoethane	1300	U
108-90-7	Chlorobenzene	1300	U
100-41-4	Ethylbenzene	1300	U
1330-20-7	Xylene (Total)	1300	U
100-42-5	Styrene	1300	U
75-25-2	Bromoform	1300	U
98-82-8	Isopropylbenzene	1300	U
79-34-5	1,1,2,2-Tetrachloroethane	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	1300	U
95-50-1	1,2-Dichlorobenzene	1300	U
96-12-8	1,2-Dibromo-3-Chloropropane	230	J
120-82-1	1,2,4-Trichlorobenzene	240	J

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKRR

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01b

Matrix: (soil/water) SOIL Lab Sample ID: WG6717-1

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6717-1A51

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKTT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6771-1

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6771-1A51

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1300	U
74-87-3	Chloromethane	1300	U
75-01-4	Vinyl Chloride	1300	U
74-83-9	Bromomethane	1300	U
75-00-3	Chloroethane	1300	U
75-69-4	Trichlorofluoromethane	1300	U
75-35-4	1,1-Dichloroethene	1300	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1300	U
67-64-1	Acetone	1300	U
75-15-0	Carbon Disulfide	1300	U
79-20-9	Methyl Acetate	1300	U
75-09-2	Methylene Chloride	1300	U
156-60-5	trans-1,2-Dichloroethene	1300	U
1634-04-4	Methyl tert-Butyl Ether	1300	U
75-34-3	1,1-Dichloroethane	1300	U
156-59-2	cis-1,2-Dichloroethene	1300	U
78-93-3	2-Butanone	270	J
67-66-3	Chloroform	1300	U
71-55-6	1,1,1-Trichloroethane	1300	U
110-82-7	Cyclohexane	1300	U
56-23-5	Carbon Tetrachloride	1300	U
71-43-2	Benzene	1300	U
107-06-2	1,2-Dichloroethane	1300	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKTT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6771-1

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6771-1A51

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	1300	U
108-87-2	Methylcyclohexane	1300	U
78-87-5	1,2-Dichloropropane	1300	U
75-27-4	Bromodichloromethane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
108-10-1	4-Methyl-2-Pentanone	1300	U
108-88-3	Toluene	1300	U
10061-02-6	trans-1,3-Dichloropropene	1300	U
79-00-5	1,1,2-Trichloroethane	1300	U
127-18-4	Tetrachloroethene	1300	U
591-78-6	2-Hexanone	140	J
124-48-1	Dibromochloromethane	1300	U
106-93-4	1,2-Dibromoethane	1300	U
108-90-7	Chlorobenzene	1300	U
100-41-4	Ethylbenzene	1300	U
1330-20-7	Xylene (Total)	1300	U
100-42-5	Styrene	1300	U
75-25-2	Bromoform	1300	U
98-82-8	Isopropylbenzene	1300	U
79-34-5	1,1,2,2-Tetrachloroethane	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	1300	U
95-50-1	1,2-Dichlorobenzene	1300	U
96-12-8	1,2-Dibromo-3-Chloropropane	200	J
120-82-1	1,2,4-Trichlorobenzene	130	J

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

~~EPA~~ SAMPLE NO.

VBLKTT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6771-1

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6771-1A51

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01B

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01I

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-1

Sample wt/vol: 2.73(g/mL) G Lab File ID: EE01B-1R2A56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. _____ Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	18	U
74-87-3	Chloromethane	18	U
75-01-4	Vinyl Chloride	18	U
74-83-9	Bromomethane	18	U
75-00-3	Chloroethane	18	U
75-69-4	Trichlorofluoromethane	18	U
75-35-4	1,1-Dichloroethene	18	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	18	U
67-64-1	Acetone	110	
75-15-0	Carbon Disulfide	18	U
79-20-9	Methyl Acetate	8	J
75-09-2	Methylene Chloride	15 ~~8~~	BJ 4
156-60-5	trans-1,2-Dichloroethene	18	U
1634-04-4	Methyl-tert-butyl ether	18	U
75-34-3	1,1-Dichloroethane	18	U
156-59-2	cis-1,2-Dichloroethene	18	U
78-93-3	2-Butanone	23	
67-66-3	Chloroform	18	U
71-55-6	1,1,1-Trichloroethane	18	U
110-82-7	Cyclohexane	4	J
56-23-5	Carbon Tetrachloride	18	U
71-43-2	Benzene	18	U
107-06-2	1,2-Dichloroethane	18	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01B

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-1

Sample wt/vol: 2.73(g/mL) G Lab File ID: EE01B-1R2A56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. _____ Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	18	U
108-87-2	Methylcyclohexane	4	J
78-87-5	1,2-Dichloropropane	18	U
75-27-4	Bromodichloromethane	18	U
10061-01-5	cis-1,3-Dichloropropene	18	U
108-10-1	4-Methyl-2-Pentanone	12	J
108-88-3	Toluene	18	U
10061-02-6	trans-1,3-Dichloropropene	18	U
79-00-5	1,1,2-Trichloroethane	18	U
127-18-4	Tetrachloroethene	18	U
591-78-6	2-Hexanone	18	U
124-48-1	Dibromochloromethane	18	U
106-93-4	1,2-Dibromoethane	18	U
108-90-7	Chlorobenzene	18	U
100-41-4	Ethylbenzene	18	U
1330-20-7	Xylene (Total)	18	U
100-42-5	Styrene	18	U
75-25-2	Bromoform	18	U
98-82-8	Isopropylbenzene	18	U
79-34-5	1,1,2,2-Tetrachloroethane	18	U
541-73-1	1,3-Dichlorobenzene	18	U
106-46-7	1,4-Dichlorobenzene	18	U
95-50-1	1,2-Dichlorobenzene	18	U
96-12-8	1,2-Dibromo-3-Chloropropane	18	U
120-82-1	1,2,4-Trichlorobenzene	18	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01B

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-1

Sample wt/vol: 2.73 (g/mL) G Lab File ID: EE01B-1R2A56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. _____ Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 13 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 7446-09-5	SULFUR DIOXIDE	3.10	130	NJB
2. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	13.41	14	NJ
3.	UNKNOWN	13.74	12	J
4.	LABORATORY ARTIFACT	15.98	33	J
5. 95-36-3	1,2,4-TRIMETHYLBENZENE	16.53	12	NJ
6.	LABORATORY ARTIFACT	17.67	51	J
7. 933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHY	17.92	10	NJ
8. 933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHY	18.30	23	NJ
9.	UNKNOWN	18.72	10	J
10.	UNKNOWN	18.77	10	J
11.	UNKNOWN	18.89	15	J
12.	LABORATORY ARTIFACT	19.20	23	J
13.	UNKNOWN	19.35	10	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01C

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-2

Sample wt/vol: 5.21(g/mL) G Lab File ID: EE01B-2RA56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 29 Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	14	U
75-35-4	1,1-Dichloroethene	14	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	U
67-64-1	Acetone	36	B 4
75-15-0	Carbon Disulfide	2	J
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	14 11	JB 4 10/2
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	Methyl-tert-butyl ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	6	J
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	14	U
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01C

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-2

Sample wt/vol: 5.21(g/mL) G Lab File ID: EE01B-2RA56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 29 Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	14	U
108-87-2	Methylcyclohexane	14	U
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	4	J
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	1	J
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
1330-20-7	Xylene (Total)	42	
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3-Dichlorobenzene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
95-50-1	1,2-Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-Chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01C

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-2

Sample wt/vol: 5.21 (g/mL) G Lab File ID: EE01B-2RA56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 29 Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.29	110	J
2. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	13.38	8	NJB
3.	LABORATORY ARTIFACT	15.97	7	J
4. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	16.10	13	NJ
5. 95-36-3	1,2,4-TRIMETHYLBENZENE	16.52	7	NJ
6. 496-11-7	INDANE	17.10	19	NJ
7.	LABORATORY ARTIFACT	17.67	9	JB
8.	LABORATORY ARTIFACT	19.19	15	JB
9.	UNKNOWN	20.62	10	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01D

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-3

Sample wt/vol: 5.45(g/mL) G Lab File ID: EE01B-3RA56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 16 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	50	
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	11	JB 4
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-butyl ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	9	J
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U

11/27/00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01D

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-3

Sample wt/vol: 5.45(g/mL) G Lab File ID: EE01B-3RA56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 16 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-Chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01D

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-3

Sample wt/vol: 5.45 (g/mL) G Lab File ID: EE01B-3RA56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 16 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 7446-09-5	SULFUR DIOXIDE	3.06	81	NJB
2. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	13.42	6	NJ
3. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	15.99	30	NJ
4.	LABORATORY ARTIFACT	17.69	22	J
5.	LABORATORY ARTIFACT	19.21	7	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01E

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-4

Sample wt/vol: 5.66(g/mL) G Lab File ID: EE01B-4A56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 22 Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	11 ~~8~~	JB 4
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	11 ~~7~~	JB 4
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-butyl ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	2	J
107-06-2	1,2-Dichloroethane	11	U

11/27/00

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01E

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-4

Sample wt/vol: 5.66(g/mL) G Lab File ID: EE01B-4A56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 22 Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	4	J
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	3	J
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	2	J
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-Chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01E

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-4

Sample wt/vol: 5.66 (g/mL) G Lab File ID: EE01B-4A56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 22 Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	13.42	6	J
2.	LABORATORY ARTIFACT	16.00	9	J
3.	LABORATORY ARTIFACT	17.71	8	JB
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01F

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01b

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-5

Sample wt/vol: 5.32(g/mL) G Lab File ID: EE01B-5R2A56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 8 Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	1	J
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	200	B
75-15-0	Carbon Disulfide	2	J
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	16	B
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01F

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-5

Sample wt/vol: 5.32(g/mL) G Lab File ID: EE01B-5R2A56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 8 Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	9	J
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	2	J
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	5	J
1330-20-7	Xylene (Total)	10	J
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01F

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-5

Sample wt/vol: 5.32 (g/mL) G Lab File ID: EE01B-5R2A56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 8 Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 28

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	9.93	4300	J
2.	UNKNOWN	10.43	2300	J
3.	UNKNOWN	11.96	1600	J
4.	UNKNOWN	12.86	80	J
5.	UNKNOWN	13.13	160	J
6.	UNKNOWN	14.23	520	J
7.	UNKNOWN	15.80	1700	J
8.	UNKNOWN	16.64	410	J
9. 300-57-2	BENZENE, 2-PROPENYL-	17.10	320	NJ
10.	UNKNOWN	17.17	330	J
11. 535-77-3	BENZENE, 1-METHYL-3-(1-METHY	17.52	390	NJ
12.	UNKNOWN	17.57	570	J
13.	UNKNOWN	17.77	370	J
14. 933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHY	17.87	330	NJ
15.	UNKNOWN	17.92	260	J
16.	UNKNOWN	18.14	240	J
17.	UNKNOWN	18.25	120	J
18. 27133-93-3	2,3-DIHYDRO-1-METHYLINDENE	18.30	320	NJ
19.	UNKNOWN	18.37	240	J
20.	UNKNOWN	18.45	210	J
21.	UNKNOWN	18.54	170	J
22. 4218-48-8	BENZENE, 1-ETHYL-4-(1-METHYL	18.61	320	NJ
23. 4912-92-9	1H-INDENE, 2,3-DIHYDRO-1,1-D	18.71	430	NJ
24.	UNKNOWN	18.89	260	J
25.	UNKNOWN	19.00	130	J
26.	UNKNOWN	19.06	160	J
27. 6682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-D	19.18	240	NJ
28. 17057-82-8	1H-INDENE, 2,3-DIHYDRO-1,2-D	19.34	140	NJ
29.				
30.				

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01G

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-6

Sample wt/vol: 5.38(g/mL) G Lab File ID: EE01B-6RA51

Level: (low/med) MED Date Received: 11/02/00

% Moisture: not dec. 21 Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1200	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-69-4	Trichlorofluoromethane	1200	U
75-35-4	1,1-Dichloroethene	1200	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1200	U
67-64-1	Acetone	1200	U
75-15-0	Carbon Disulfide	1200	U
79-20-9	Methyl Acetate	1200	U
75-09-2	Methylene Chloride	1200	U
156-60-5	trans-1,2-Dichloroethene	1200	U
1634-04-4	Methyl tert-Butyl Ether	1200	U
75-34-3	1,1-Dichloroethane	1200	U
156-59-2	cis-1,2-Dichloroethene	1200	U
78-93-3	2-Butanone	1200	U
67-66-3	Chloroform	1200	U
71-55-6	1,1,1-Trichloroethane	1200	U
110-82-7	Cyclohexane	1200	U
56-23-5	Carbon Tetrachloride	1200	U
71-43-2	Benzene	200	J
107-06-2	1,2-Dichloroethane	1200	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01G

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-6

Sample wt/vol: 5.38(g/mL) G Lab File ID: EE01B-6RA51

Level: (low/med) MED Date Received: 11/02/00

% Moisture: not dec. 21 Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	1200	U
108-87-2	Methylcyclohexane	9100	
78-87-5	1,2-Dichloropropane	1200	U
75-27-4	Bromodichloromethane	1200	U
10061-01-5	cis-1,3-Dichloropropene	1200	U
108-10-1	4-Methyl-2-Pentanone	1200	U
108-88-3	Toluene	1200	U
10061-02-6	trans-1,3-Dichloropropene	1200	U
79-00-5	1,1,2-Trichloroethane	1200	U
127-18-4	Tetrachloroethene	1200	U
591-78-6	2-Hexanone	1200	U
124-48-1	Dibromochloromethane	1200	U
106-93-4	1,2-Dibromoethane	1200	U
108-90-7	Chlorobenzene	1200	U
100-41-4	Ethylbenzene	1400	
1330-20-7	Xylene (Total)	180	J
100-42-5	Styrene	1200	U
75-25-2	Bromoform	1200	U
98-82-8	Isopropylbenzene	420	J
79-34-5	1,1,2,2-Tetrachloroethane	1200	U
541-73-1	1,3-Dichlorobenzene	1200	U
106-46-7	1,4-Dichlorobenzene	1200	U
95-50-1	1,2-Dichlorobenzene	1200	U
96-12-8	1,2-Dibromo-3-Chloropropane	1200	U
120-82-1	1,2,4-Trichlorobenzene	1200	U

1F

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE01G

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-6

Sample wt/vol: 5.38 (g/mL) G Lab File ID: EE01B-6RA51

Level: (low/med) MED Date Received: 11/02/00

% Moisture: not dec. 21 Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

Number TICs found: 27 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 563-78-0	1-BUTENE, 2,3-DIMETHYL-	7.55	1500	NJ
2. 616-12-6	2-PENTENE, 3-METHYL-, (E)-	7.86	1300	NJ
3.	UNKNOWN	8.61	1300	J
4.	UNKNOWN	11.73	4700	J
5.	UNKNOWN	13.56	7800	J
6.	UNKNOWN	13.86	2800	J
7.	SUBSTITUTED BENZENE	14.27	7500	J
8.	UNKNOWN	14.81	3100	J
9.	SUBSTITUTED BENZENE	15.00	5900	J
10. 135-01-3	BENZENE, 1,2-DIETHYL-	15.14	3200	NJ
11.	SUBSTITUTED BENZENE	15.21	4400	J
12. 93-53-8	BENZENEACETALDEHYDE, .ALPHA.	15.34	3500	NJ
13. 99-87-6	BENZENE, 1-METHYL-4-(1-METHY	15.47	11000	NJ
14.	SUBSTITUTED BENZENE	15.55	4200	J
15. 933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHY	15.73	8800	NJ
16.	SUBSTITUTED BENZENE	15.81	9200	J
17. 27133-93-3	2,3-DIHYDRO-1-METHYLINDENE	15.96	7400	NJ
18. 3333-13-9	BENZENE, 1-METHYL-4-(2-PROPE	16.07	15000	NJ
19.	UNKNOWN	16.29	10000	J
20. 56253-64-6	BENZENE, (2-METHYL-1-BUTENYL	16.39	7600	NJ
21.	UNKNOWN	16.64	4900	J
22. 6682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-D	16.79	3200	NJ
23. 6682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-D	16.94	2800	NJ
24.	SUBSTITUTED BENZENE	17.03	1200	J
25.	UNKNOWN	17.11	1500	J
26.	UNKNOWN	17.23	790	J
27. 90-12-0	NAPHTHALENE, 1-METHYL-	17.59	1500	NJ
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01H

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-7

Sample wt/vol: 5.32(g/mL) G Lab File ID: EE01B-7RA51

Level: (low/med) MED Date Received: 11/02/00

% Moisture: not dec. 18 Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1200	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	160	J
75-00-3	Chloroethane	1200	U
75-69-4	Trichlorofluoromethane	1200	U
75-35-4	1,1-Dichloroethene	1200	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1200	U
67-64-1	Acetone	1200	U
75-15-0	Carbon Disulfide	1200	U
79-20-9	Methyl Acetate	1200	U
75-09-2	Methylene Chloride	140	J
156-60-5	trans-1,2-Dichloroethene	1200	U
1634-04-4	Methyl tert-Butyl Ether	1200	U
75-34-3	1,1-Dichloroethane	1200	U
156-59-2	cis-1,2-Dichloroethene	1200	U
78-93-3	2-Butanone	1200	U
67-66-3	Chloroform	1200	U
71-55-6	1,1,1-Trichloroethane	1200	U
110-82-7	Cyclohexane	1200	U
56-23-5	Carbon Tetrachloride	1200	U
71-43-2	Benzene	1400	
107-06-2	1,2-Dichloroethane	1200	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01H

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-7

Sample wt/vol: 5.32(g/mL) G Lab File ID: EE01B-7RA51

Level: (low/med) MED Date Received: 11/02/00

% Moisture: not dec. 18 Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	1200	U
108-87-2	Methylcyclohexane	2800	
78-87-5	1,2-Dichloropropane	1200	U
75-27-4	Bromodichloromethane	1200	U
10061-01-5	cis-1,3-Dichloropropene	1200	U
108-10-1	4-Methyl-2-Pentanone	1200	U
108-88-3	Toluene	810	J
10061-02-6	trans-1,3-Dichloropropene	1200	U
79-00-5	1,1,2-Trichloroethane	1200	U
127-18-4	Tetrachloroethene	1200	U
591-78-6	2-Hexanone	1200	U
124-48-1	Dibromochloromethane	1200	U
106-93-4	1,2-Dibromoethane	1200	U
108-90-7	Chlorobenzene	1200	U
100-41-4	Ethylbenzene	5300	
1330-20-7	Xylene (Total)	35000	
100-42-5	Styrene	150	J
75-25-2	Bromoform	1200	U
98-82-8	Isopropylbenzene	400	J
79-34-5	1,1,2,2-Tetrachloroethane	1200	U
541-73-1	1,3-Dichlorobenzene	1200	U
106-46-7	1,4-Dichlorobenzene	1200	U
95-50-1	1,2-Dichlorobenzene	1200	U
96-12-8	1,2-Dibromo-3-Chloropropane	1200	U
120-82-1	1,2,4-Trichlorobenzene	1200	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01H

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-7

Sample wt/vol: 5.32 (g/mL) G Lab File ID: EE01B-7RA51

Level: (low/med) MED Date Received: 11/02/00

% Moisture: not dec. 18 Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

Number TICs found: 27

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 627-20-3	2-PENTENE, (Z)-	5.24	640	NJ
2.	UNKNOWN	10.92	750	J
3.	UNKNOWN	12.58	1600	J
4.	UNKNOWN	13.85	5200	J
5.	UNKNOWN	14.27	5200	J
6. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	14.34	28000	NJ
7.	SUBSTITUTED BENZENE	14.40	24000	J
8. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	14.56	11000	NJ
9. 526-73-8	BENZENE, 1,2,3-TRIMETHYL-	14.69	50000	NJ
10.	UNKNOWN	14.89	9600	J
11. 95-36-3	1,2,4-TRIMETHYLBENZENE	15.00	21000	NJ
12. 99-87-6	BENZENE, 1-METHYL-4-(1-METHY	15.20	41000	NJ
13. 535-77-3	BENZENE, 1-METHYL-3-(1-METHY	15.40	23000	NJ
14. 535-77-3	BENZENE, 1-METHYL-3-(1-METHY	15.46	23000	NJ
15.	SUBSTITUTED BENZENE	15.55	18000	J
16. 933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHY	15.76	39000	NJ
17.	UNKNOWN	15.83	22000	J
18. 27133-93-3	2,3-DIHYDRO-1-METHYLINDENE	15.96	37000	NJ
19. 3333-13-9	BENZENE, 1-METHYL-4-(2-PROPE	16.07	57000	NJ
20.	SUBSTITUTED BENZENE	16.29	29000	J
21.	DIHYDRODIMETHYLINDENE	16.39	29000	J
22.	UNKNOWN	16.64	30000	J
23. 1559-81-5	NAPHTHALENE, 1,2,3,4-TETRAHY	16.80	18000	NJ
24. 6682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-D	16.94	32000	NJ
25.	UNKNOWN	17.22	15000	J
26. 264-09-5	BENZOCYCLOHEPTATRIENE	17.59	38000	NJ
27. 571-58-4	NAPHTHALENE, 1,4-DIMETHYL-	18.62	9300	NJ
28.				
29.				
30.				

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01HRE

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-7

Sample wt/vol: 5.32(g/mL) G Lab File ID: EE01B-7R2A51

Level: (low/med) MED Date Received: 11/02/00

% Moisture: not dec. 18 Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1200	U
74-87-3	Chloromethane	220	J
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	180	J
75-00-3	Chloroethane	1200	U
75-69-4	Trichlorofluoromethane	1200	U
75-35-4	1,1-Dichloroethene	1200	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1200	U
67-64-1	Acetone	1200	U
75-15-0	Carbon Disulfide	1200	U
79-20-9	Methyl Acetate	1200	U
75-09-2	Methylene Chloride	170	J
156-60-5	trans-1,2-Dichloroethene	1200	U
1634-04-4	Methyl tert-Butyl Ether	1200	U
75-34-3	1,1-Dichloroethane	1200	U
156-59-2	cis-1,2-Dichloroethene	1200	U
78-93-3	2-Butanone	1200	U
67-66-3	Chloroform	1200	U
71-55-6	1,1,1-Trichloroethane	1200	U
110-82-7	Cyclohexane	1200	U
56-23-5	Carbon Tetrachloride	1200	U
71-43-2	Benzene	1600	
107-06-2	1,2-Dichloroethane	1200	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01HRE

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-7

Sample wt/vol: 5.32(g/mL) G Lab File ID: EE01B-7R2A51

Level: (low/med) MED Date Received: 11/02/00

% Moisture: not dec. 18 Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	1200	U
108-87-2	Methylcyclohexane	3800	
78-87-5	1,2-Dichloropropane	1200	U
75-27-4	Bromodichloromethane	1200	U
10061-01-5	cis-1,3-Dichloropropene	1200	U
108-10-1	4-Methyl-2-Pentanone	1200	U
108-88-3	Toluene	1000	J
10061-02-6	trans-1,3-Dichloropropene	1200	U
79-00-5	1,1,2-Trichloroethane	1200	U
127-18-4	Tetrachloroethene	1200	U
591-78-6	2-Hexanone	1200	U
124-48-1	Dibromochloromethane	1200	U
106-93-4	1,2-Dibromoethane	1200	U
108-90-7	Chlorobenzene	1200	U
100-41-4	Ethylbenzene	7100	
1330-20-7	Xylene (Total)	46000	
100-42-5	Styrene	200	J
75-25-2	Bromoform	1200	U
98-82-8	Isopropylbenzene	520	J
79-34-5	1,1,2,2-Tetrachloroethane	1200	U
541-73-1	1,3-Dichlorobenzene	1200	U
106-46-7	1,4-Dichlorobenzene	1200	U
95-50-1	1,2-Dichlorobenzene	1200	U
96-12-8	1,2-Dibromo-3-Chloropropane	1200	U
120-82-1	1,2,4-Trichlorobenzene	1200	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01HRE

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-7

Sample wt/vol: 5.32 (g/mL) G Lab File ID: EE01B-7R2A51

Level: (low/med) MED Date Received: 11/02/00

% Moisture: not dec. 18 Date Analyzed: 11/06/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

Number TICs found: 26

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	9.36	5800	J
2.	UNKNOWN	10.77	640	J
3.	UNKNOWN	12.60	2000	J
4.	UNKNOWN	12.84	11000	J
5.	UNKNOWN	13.86	6600	J
6.	SUBSTITUTED BENZENE	14.27	5300	J
7. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	14.35	62000	NJ
8. 108-67-8	BENZENE, 1,3,5-TRIMETHYL-	14.56	13000	NJ
9. 526-73-8	BENZENE, 1,2,3-TRIMETHYL-	14.69	59000	NJ
10.	SUBSTITUTED BENZENE	14.89	11000	J
11.	SUBSTITUTED BENZENE	15.00	25000	J
12.	SUBSTITUTED BENZENE	15.19	54000	J
13. 99-87-6	BENZENE, 1-METHYL-4-(1-METHY	15.46	53000	NJ
14.	UNKNOWN	15.55	16000	J
15.	UNKNOWN	15.62	8600	J
16. 99-87-6	BENZENE, 1-METHYL-4-(1-METHY	15.76	51000	NJ
17. 2050-24-0	BENZENE, 1,3-DIETHYL-5-METHY	15.83	22000	NJ
18. 824-22-6	1H-INDENE, 2,3-DIHYDRO-4-MET	15.96	46000	NJ
19.	UNKNOWN	16.07	70000	J
20.	UNKNOWN	16.29	36000	J
21.	UNKNOWN	16.39	36000	J
22.	UNKNOWN	16.64	37000	J
23. 17059-48-2	1H-INDENE, 2,3-DIHYDRO-1,6-D	16.79	23000	NJ
24. 17057-82-8	1H-INDENE, 2,3-DIHYDRO-1,2-D	16.94	41000	NJ
25.	UNKNOWN	17.22	19000	J
26. 264-09-5	BENZOCYCLOHEPTATRIENE	17.59	59000	NJ
27.				
28.				
29.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01J

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01L

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-8

Sample wt/vol: 3.0 (g/mL) G Lab File ID: EE01B-8D2A56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 25 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	22	U
74-87-3	Chloromethane	22	U
75-01-4	Vinyl Chloride	22	U
74-83-9	Bromomethane	22	U
75-00-3	Chloroethane	22	U
75-69-4	Trichlorofluoromethane	22	U
75-35-4	1,1-Dichloroethene	22	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22	U
67-64-1	Acetone	200	
75-15-0	Carbon Disulfide	22	U
79-20-9	Methyl Acetate	22	U
75-09-2	Methylene Chloride	22	U
156-60-5	trans-1,2-Dichloroethene	22	U
1634-04-4	Methyl-tert-butyl ether	22	U
75-34-3	1,1-Dichloroethane	22	U
156-59-2	cis-1,2-Dichloroethene	22	U
78-93-3	2-Butanone	22	U
67-66-3	Chloroform	22	U
71-55-6	1,1,1-Trichloroethane	22	U
110-82-7	Cyclohexane	22	U
56-23-5	Carbon Tetrachloride	22	U
71-43-2	Benzene	6	J
107-06-2	1,2-Dichloroethane	22	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01J

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-8

Sample wt/vol: 3.0 (g/mL) G Lab File ID: EE01B-8D2A56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 25 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	22	U
108-87-2	Methylcyclohexane	180	
78-87-5	1,2-Dichloropropane	22	U
75-27-4	Bromodichloromethane	22	U
10061-01-5	cis-1,3-Dichloropropene	22	U
108-10-1	4-Methyl-2-Pentanone	22	U
108-88-3	Toluene	22	U
10061-02-6	trans-1,3-Dichloropropene	22	U
79-00-5	1,1,2-Trichloroethane	22	U
127-18-4	Tetrachloroethene	22	U
591-78-6	2-Hexanone	22	U
124-48-1	Dibromochloromethane	22	U
106-93-4	1,2-Dibromoethane	22	U
108-90-7	Chlorobenzene	22	U
100-41-4	Ethylbenzene	22	U
1330-20-7	Xylene (Total)	220	
100-42-5	Styrene	22	U
75-25-2	Bromoform	22	U
98-82-8	Isopropylbenzene	13	J
79-34-5	1,1,2,2-Tetrachloroethane	22	U
541-73-1	1,3-Dichlorobenzene	22	U
106-46-7	1,4-Dichlorobenzene	22	U
95-50-1	1,2-Dichlorobenzene	22	U
96-12-8	1,2-Dibromo-3-Chloropropane	22	U
120-82-1	1,2,4-Trichlorobenzene	22	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01J

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-8

Sample wt/vol: 3.0 (g/mL) G Lab File ID: EE01B-8D2A56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 25 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 526-73-8	BENZENE, 1,2,3-TRIMETHYL-	16.64	170	NJ
2. 535-77-3	BENZENE, 1-METHYL-3-(1-METHY	17.64	180	NJ
3.	UNKNOWN	17.77	410	J
4.	UNKNOWN	17.98	270	J
5. 4175-53-5	1H-INDENE, 2,3-DIHYDRO-1,3-D	18.13	240	NJ
6.	UNKNOWN	18.32	230	J
7. 27133-93-3	2,3-DIHYDRO-1-METHYLINDENE	18.43	500	NJ
8.	UNKNOWN	18.59	360	J
9. 4175-53-5	1H-INDENE, 2,3-DIHYDRO-1,3-D	18.72	630	NJ
10. 56253-64-6	BENZENE, (2-METHYL-1-BUTENYL	18.84	680	NJ
11.	UNKNOWN	18.91	410	J
12.	UNKNOWN	19.14	480	J
13.	UNKNOWN	19.20	420	J
14.	UNKNOWN	19.32	760	J
15. 17057-82-8	1H-INDENE, 2,3-DIHYDRO-1,2-D	19.47	640	NJ
16.	UNKNOWN	19.60	380	J
17.	UNKNOWN	19.66	710	J
18.	UNKNOWN	19.81	640	J
19.	UNKNOWN	20.05	330	J
20.	UNKNOWN	20.11	160	J
21. 264-09-5	BENZOCYCLOHEPTATRIENE	20.21	570	NJ
22.	UNKNOWN	20.25	260	J
23.	UNKNOWN	20.34	190	J
24.	UNKNOWN	20.43	220	J
25.	UNKNOWN	20.56	160	J
26.	UNKNOWN	20.60	220	J
27.	UNKNOWN	20.81	200	J
28.	UNKNOWN	21.05	320	J
29. 582-16-1	NAPHTHALENE, 2,7-DIMETHYL-	21.15	220	NJ
30. 581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	21.35	230	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01CMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-4

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6716-4A56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 29 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	2	J
75-35-4	1,1-Dichloroethene	68	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	U
67-64-1	Acetone	760	E
75-15-0	Carbon Disulfide	39	
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	14 ~~3~~	JB U
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	Methyl-tert-butyl ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	180	
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	3	J
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	76	
107-06-2	1,2-Dichloroethane	14	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01CMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-4

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6716-4A56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 29 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	67	
108-87-2	Methylcyclohexane	3	J
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	100	
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	2	J
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	73	
100-41-4	Ethylbenzene	5	J
1330-20-7	Xylene (Total)	780	
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	3	J
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3-Dichlorobenzene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
95-50-1	1,2-Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-Chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01GMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-7

Sample wt/vol: 5.38(g/mL) G Lab File ID: WG6716-7RA51

Level: (low/med) MED Date Received: 11/02/00

% Moisture: not dec. 21 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1200	U
74-87-3	Chloromethane	330	J
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	230	J
75-00-3	Chloroethane	1200	U
75-69-4	Trichlorofluoromethane	1200	U
75-35-4	1,1-Dichloroethene	5600	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1200	U
67-64-1	Acetone	1200	J
75-15-0	Carbon Disulfide	1200	U
79-20-9	Methyl Acetate	1200	U
75-09-2	Methylene Chloride	140	J
156-60-5	trans-1,2-Dichloroethene	1200	U
1634-04-4	Methyl tert-Butyl Ether	1200	U
75-34-3	1,1-Dichloroethane	1200	U
156-59-2	cis-1,2-Dichloroethene	1200	U
78-93-3	2-Butanone	1200	U
67-66-3	Chloroform	140	J
71-55-6	1,1,1-Trichloroethane	1200	U
110-82-7	Cyclohexane	1200	U
56-23-5	Carbon Tetrachloride	1200	U
71-43-2	Benzene	5800	
107-06-2	1,2-Dichloroethane	1200	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01GMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-7

Sample wt/vol: 5.38(g/mL) G Lab File ID: WG6716-7RA51

Level: (low/med) MED Date Received: 11/02/00

% Moisture: not dec. 21 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	4900	
108-87-2	Methylcyclohexane	8000	
78-87-5	1,2-Dichloropropane	1200	U
75-27-4	Bromodichloromethane	1200	U
10061-01-5	cis-1,3-Dichloropropene	1200	U
108-10-1	4-Methyl-2-Pentanone	1200	U
108-88-3	Toluene	5300	
10061-02-6	trans-1,3-Dichloropropene	1200	U
79-00-5	1,1,2-Trichloroethane	1200	U
127-18-4	Tetrachloroethene	1200	U
591-78-6	2-Hexanone	1200	U
124-48-1	Dibromochloromethane	1200	U
106-93-4	1,2-Dibromoethane	1200	U
108-90-7	Chlorobenzene	5500	
100-41-4	Ethylbenzene	1500	
1330-20-7	Xylene (Total)	180	J
100-42-5	Styrene	1200	U
75-25-2	Bromoform	1200	U
98-82-8	Isopropylbenzene	460	J
79-34-5	1,1,2,2-Tetrachloroethane	1200	U
541-73-1	1,3-Dichlorobenzene	1200	U
106-46-7	1,4-Dichlorobenzene	1200	U
95-50-1	1,2-Dichlorobenzene	1200	U
96-12-8	1,2-Dibromo-3-Chloropropane	1200	U
120-82-1	1,2,4-Trichlorobenzene	1200	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01CMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-5

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6716-5A56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 29 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	1	J
75-35-4	1,1-Dichloroethene	71	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	U
67-64-1	Acetone	610	E
75-15-0	Carbon Disulfide	59	
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	14 ~~3~~	JB 4
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	Methyl-tert-butyl ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	140	
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	1	J
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	78	
107-06-2	1,2-Dichloroethane	14	U

11/27/00

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01CMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-5

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6716-5A56

Level: (low/med) LOW Date Received: 11/02/00

% Moisture: not dec. 29 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	72	
108-87-2	Methylcyclohexane	3	J
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	100	
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	14	U
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	78	
100-41-4	Ethylbenzene	4	J
1330-20-7	Xylene (Total)	640	
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	3	J
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3-Dichlorobenzene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
95-50-1	1,2-Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-Chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01GMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-8

Sample wt/vol: 5.38(g/mL) G Lab File ID: WG6716-8RA51

Level: (low/med) MED Date Received: 11/02/00

% Moisture: not dec. 21 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1200	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-69-4	Trichlorofluoromethane	1200	U
75-35-4	1,1-Dichloroethene	6700	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1200	U
67-64-1	Acetone	1200	U
75-15-0	Carbon Disulfide	1200	U
79-20-9	Methyl Acetate	1200	U
75-09-2	Methylene Chloride	140	J
156-60-5	trans-1,2-Dichloroethene	1200	U
1634-04-4	Methyl tert-Butyl Ether	1200	U
75-34-3	1,1-Dichloroethane	1200	U
156-59-2	cis-1,2-Dichloroethene	1200	U
78-93-3	2-Butanone	1200	U
67-66-3	Chloroform	130	J
71-55-6	1,1,1-Trichloroethane	1200	U
110-82-7	Cyclohexane	1200	U
56-23-5	Carbon Tetrachloride	1200	U
71-43-2	Benzene	5900	
107-06-2	1,2-Dichloroethane	1200	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01GMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-8

Sample wt/vol: 5.38(g/mL) G Lab File ID: WG6716-8RA51

Level: (low/med) MED Date Received: 11/02/00

% Moisture: not dec. 21 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	5200	
108-87-2	Methylcyclohexane	7300	
78-87-5	1,2-Dichloropropane	1200	U
75-27-4	Bromodichloromethane	1200	U
10061-01-5	cis-1,3-Dichloropropene	1200	U
108-10-1	4-Methyl-2-Pentanone	1200	U
108-88-3	Toluene	4800	
10061-02-6	trans-1,3-Dichloropropene	1200	U
79-00-5	1,1,2-Trichloroethane	1200	U
127-18-4	Tetrachloroethene	1200	U
591-78-6	2-Hexanone	1200	U
124-48-1	Dibromochloromethane	1200	U
106-93-4	1,2-Dibromoethane	1200	U
108-90-7	Chlorobenzene	5600	
100-41-4	Ethylbenzene	1500	
1330-20-7	Xylene (Total)	170	J
100-42-5	Styrene	1200	U
75-25-2	Bromoform	1200	U
98-82-8	Isopropylbenzene	490	J
79-34-5	1,1,2,2-Tetrachloroethane	1200	U
541-73-1	1,3-Dichlorobenzene	1200	U
106-46-7	1,4-Dichlorobenzene	1200	U
95-50-1	1,2-Dichlorobenzene	1200	U
96-12-8	1,2-Dibromo-3-Chloropropane	1200	U
120-82-1	1,2,4-Trichlorobenzene	1200	U

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	SBLKTB	40	40	47	33	35	39	38	40	0
02	EE01B	38	34	35	29	31	34	34	35	0
03	EE01BMS	30	27*	28	26	26	31	27	28	1
04	EE01BMSD	28	25*	27	25	25	26	26	26	1
05	SBLKSW	36	42	37	35	36	33	36	32	0
06	EE01D	52	51	56	48	53	61	51	50	0
07	EE01E	58	69	62	51	58	63	57	55	0
08	EE01F	53	62	56	49	53	64	52	52	0
09	EE01G	58	66	61	55	58	65	58	56	0
10	EE01J	70	85	65	61	66	64	65	63	0
11	EE01C	57	68	66	53	57	58	56	53	0
12	EE01CMS	55	68	52	52	52	55	51	50	0
13	EE01CMSD	66	77	68	59	63	71	60	61	0
14	EE01H	33	25D	31	26	28	29	27	25	0
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix Spike - EPA Sample No.: EE01C Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3521	0.00	2554	73	26- 90
2-Chlorophenol	3521	0.00	2608	74	25-102
N-Nitroso-di-n-prop.(1)	2347	0.00	1677	71	41-126
4-Chloro-3-methylphenol	3521	0.00	2390	68	26-103
Acenaphthene	2347	0.00	1650	70	31-137
4-Nitrophenol	3521	0.00	2724	77	11-114
2,4-Dinitrotoluene	2347	0.00	1441	61	28- 89
Pentachlorophenol	3521	0.00	1825	52	17-109
Pyrene	2347	202.4	4553	185*	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3521	2694	77	5	35	26- 90
2-Chlorophenol	3521	2803	80	8	50	25-102
N-Nitroso-di-n-prop.(1)	2347	1764	75	5	38	41-126
4-Chloro-3-methylphenol	3521	2580	73	7	33	26-103
Acenaphthene	2347	1712	73	4	19	31-137
4-Nitrophenol	3521	2923	83	8	50	11-114
2,4-Dinitrotoluene	2347	1558	66	8	47	28- 89
Pentachlorophenol	3521	2397	68	27	47	17-109
Pyrene	2347	3466	139	28	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 9 outside limits
Spike Recovery: 1 out of 18 outside limits

COMMENTS:

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix Spike - EPA Sample No.: EE01B Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	75000	0.00	24520	33	26- 90
2-Chlorophenol	75000	0.00	26080	35	25-102
N-Nitroso-di-n-prop.(1)	50000	0.00	15810	32*	41-126
4-Chloro-3-methylphenol	75000	0.00	25770	34	26-103
Acenaphthene	50000	0.00	17730	35	31-137
4-Nitrophenol	75000	0.00	19100	25	11-114
2,4-Dinitrotoluene	50000	0.00	15840	32	28- 89
Pentachlorophenol	75000	0.00	20040	27	17-109
Pyrene	50000	0.00	15410	31*	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75000	22430	30	10	35	26- 90
2-Chlorophenol	75000	25010	33	6	50	25-102
N-Nitroso-di-n-prop.(1)	50000	15590	31*	3	38	41-126
4-Chloro-3-methylphenol	75000	26310	35	3	33	26-103
Acenaphthene	50000	14770	30*	15	19	31-137
4-Nitrophenol	75000	16970	23	8	50	11-114
2,4-Dinitrotoluene	50000	13350	27*	17	47	28- 89
Pentachlorophenol	75000	15730	21	25	47	17-109
Pyrene	50000	15500	31*	0	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 9 outside limits
Spike Recovery: 6 out of 18 outside limits

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKSW

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01D

Lab File ID: WG6756-1B70 Lab Sample ID: WG6756-1

Instrument ID: 5972HP70 Date Extracted: 11/07/00

Matrix: (soil/water) SOIL Date Analyzed: 11/09/00

Level:(low/med) LOW Time Analyzed: 2010

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EE01D	EE01B-11	EE01B-11B70	11/09/00
02	EE01E	EE01B-12	EE01B-12B70	11/09/00
03	EE01F	EE01B-13	EE01B-13B70	11/09/00
04	EE01G	EE01B-14	EE01B-14B70	11/09/00
05	EE01J	EE01B-16	EE01B-16B70	11/10/00
06	EE01C	EE01B-10	EE01B-10B70	11/10/00
07	EE01CMS	WG6756-2	WG6756-2B70	11/10/00
08	EE01CMSD	WG6756-3	WG6756-3B70	11/10/00
09	EE01H	EE01B-15	EE01B-15D2A7	11/10/00
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COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKTB

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Lab File ID: WG6768-1A70 Lab Sample ID: WG6768-1

Instrument ID: 5972HP70 Date Extracted: 11/07/00

Matrix: (soil/water) SOIL Date Analyzed: 11/08/00

Level:(low/med) LOW Time Analyzed: 1750

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EE01B	EE01B-9	EE01B-9A70	11/08/00
02	EE01BMS	WG6768-2	WG6768-2A70	11/08/00
03	EE01BMSD	WG6768-3	WG6768-3A70	11/08/00
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COMMENTS:

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKSW

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: WG6756-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG6756-1B70

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKSW

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6756-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG6756-1B70

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLKSW

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EEC

Matrix: (soil/water) SOIL Lab Sample ID: WG6756-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: WG6756-1B70

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Extraction: (Type) SONC

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	7.07	680	J
2.	UNKNOWN (BC)	8.59	160	J
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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKTB

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE013

Matrix: (soil/water) SOIL Lab Sample ID: WG6768-1

Sample wt/vol: 1.0(g/mL) G Lab File ID: WG6768-1A70

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	9900	U
108-95-2	Phenol	9900	U
111-44-4	bis(2-Chloroethyl)ether	9900	U
95-57-8	2-Chlorophenol	9900	U
95-48-7	2-Methylphenol	9900	U
108-60-1	2,2'-oxybis(1-Chloropropane)	9900	U
98-86-2	Acetophenone	9900	U
106-44-5	4-Methylphenol	9900	U
621-64-7	N-Nitroso-di-n-propylamine	9900	U
67-72-1	Hexachloroethane	9900	U
98-95-3	Nitrobenzene	9900	U
78-59-1	Isophorone	9900	U
88-75-5	2-Nitrophenol	9900	U
105-67-9	2,4-Dimethylphenol	9900	U
111-91-1	bis(2-Chloroethoxy)methane	9900	U
120-83-2	2,4-Dichlorophenol	9900	U
91-20-3	Naphthalene	9900	U
106-47-8	4-Chloroaniline	9900	U
87-68-3	Hexachlorobutadiene	9900	U
105-60-2	Caprolactam	9900	U
59-50-7	4-Chloro-3-methylphenol	9900	U
91-57-6	2-Methylnaphthalene	9900	U
77-47-4	Hexachlorocyclopentadiene	9900	U
88-06-2	2,4,6-Trichlorophenol	9900	U
95-95-4	2,4,5-Trichlorophenol	25000	U
92-52-4	1,1'-Biphenyl	9900	U
91-58-7	2-Chloronaphthalene	9900	U
88-74-4	2-Nitroaniline	25000	U
131-11-3	Dimethylphthalate	9900	U
606-20-2	2,6-Dinitrotoluene	9900	U
208-96-8	Acenaphthylene	9900	U
99-09-2	3-Nitroaniline	25000	U
83-32-9	Acenaphthene	9900	U

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKTB

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: WG6768-1

Sample wt/vol: 1.0(g/mL) G Lab File ID: WG6768-1A70

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	25000	U
100-02-7	4-Nitrophenol	25000	U
132-64-9	Dibenzofuran	9900	U
121-14-2	2,4-Dinitrotoluene	9900	U
84-66-2	Diethylphthalate	9900	U
86-73-7	Fluorene	9900	U
7005-72-3	4-Chlorophenyl-phenylether	9900	U
100-01-6	4-Nitroaniline	25000	U
534-52-1	4,6-Dinitro-2-methylphenol	25000	U
86-30-6	N-nitrosodiphenylamine (1)	9900	U
101-55-3	4-Bromophenyl-phenylether	9900	U
118-74-1	Hexachlorobenzene	9900	U
1912-24-9	Atrazine	9900	U
87-86-5	Pentachlorophenol	25000	U
85-01-8	Phenanthrene	9900	U
120-12-7	Anthracene	9900	U
86-74-8	Carbazole	9900	U
84-74-2	Di-n-butylphthalate	9900	U
206-44-0	Fluoranthene	9900	U
129-00-0	Pyrene	9900	U
85-68-7	Butylbenzylphthalate	9900	U
91-94-1	3,3'-Dichlorobenzidine	9900	U
56-55-3	Benzo(a)anthracene	9900	U
218-01-9	Chrysene	9900	U
117-81-7	bis(2-Ethylhexyl)phthalate	9900	U
117-84-0	Di-n-octylphthalate	9900	U
205-99-2	Benzo(b)fluoranthene	9900	U
207-08-9	Benzo(k)fluoranthene	9900	U
50-32-8	Benzo(a)pyrene	9900	U
193-39-5	Indeno(1,2,3-cd)pyrene	9900	U
53-70-3	Dibenzo(a,h)anthracene	9900	U
191-24-2	Benzo(g,h,i)perylene	9900	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLKTB

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6768-1

Sample wt/vol: 1.0 (g/mL) G Lab File ID: WG6768-1A70

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Extraction: (Type) SONC

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01B

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE(

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-9

Sample wt/vol: 1.1(g/mL) G Lab File ID: EE01B-9A70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	9000	U
108-95-2	Phenol	9000	U
111-44-4	bis(2-Chloroethyl)ether	9000	U
95-57-8	2-Chlorophenol	9000	U
95-48-7	2-Methylphenol	9000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	9000	U
98-86-2	Acetophenone	9000	U
106-44-5	4-Methylphenol	9000	U
621-64-7	N-Nitroso-di-n-propylamine	9000	U
67-72-1	Hexachloroethane	9000	U
98-95-3	Nitrobenzene	9000	U
78-59-1	Isophorone	9000	U
88-75-5	2-Nitrophenol	9000	U
105-67-9	2,4-Dimethylphenol	9000	U
111-91-1	bis(2-Chloroethoxy)methane	9000	U
120-83-2	2,4-Dichlorophenol	9000	U
91-20-3	Naphthalene	9000	U
106-47-8	4-Chloroaniline	9000	U
87-68-3	Hexachlorobutadiene	9000	U
105-60-2	Caprolactam	9000	U
59-50-7	4-Chloro-3-methylphenol	9000	U
91-57-6	2-Methylnaphthalene	9000	U
77-47-4	Hexachlorocyclopentadiene	9000	U
88-06-2	2,4,6-Trichlorophenol	9000	U
95-95-4	2,4,5-Trichlorophenol	23000	U
92-52-4	1,1'-Biphenyl	9000	U
91-58-7	2-Chloronaphthalene	9000	U
88-74-4	2-Nitroaniline	23000	U
131-11-3	Dimethylphthalate	9000	U
606-20-2	2,6-Dinitrotoluene	9000	U
208-96-8	Acenaphthylene	9000	U
99-09-2	3-Nitroaniline	23000	U
83-32-9	Acenaphthene	9000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01B

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-9

Sample wt/vol: 1.1(g/mL) G Lab File ID: EE01B-9A70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	23000	U
100-02-7	4-Nitrophenol	23000	U
132-64-9	Dibenzofuran	9000	U
121-14-2	2,4-Dinitrotoluene	9000	U
84-66-2	Diethylphthalate	9000	U
86-73-7	Fluorene	9000	U
7005-72-3	4-Chlorophenyl-phenylether	9000	U
100-01-6	4-Nitroaniline	23000	U
534-52-1	4,6-Dinitro-2-methylphenol	23000	U
86-30-6	N-nitrosodiphenylamine (1)	9000	U
101-55-3	4-Bromophenyl-phenylether	9000	U
118-74-1	Hexachlorobenzene	9000	U
1912-24-9	Atrazine	9000	U
87-86-5	Pentachlorophenol	23000	U
85-01-8	Phenanthrene	9000	U
120-12-7	Anthracene	9000	U
86-74-8	Carbazole	9000	U
84-74-2	Di-n-butylphthalate	9000	U
206-44-0	Fluoranthene	9000	U
129-00-0	Pyrene	9000	U
85-68-7	Butylbenzylphthalate	9000	U
91-94-1	3,3'-Dichlorobenzidine	9000	U
56-55-3	Benzo(a)anthracene	9000	U
218-01-9	Chrysene	9000	U
117-81-7	bis(2-Ethylhexyl)phthalate	9000	U
117-84-0	Di-n-octylphthalate	9000	U
205-99-2	Benzo(b)fluoranthene	9000	U
207-08-9	Benzo(k)fluoranthene	9000	U
50-32-8	Benzo(a)pyrene	9000	U
193-39-5	Indeno(1,2,3-cd)pyrene	9000	U
53-70-3	Dibenzo(a,h)anthracene	9000	U
191-24-2	Benzo(g,h,i)perylene	9000	U

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: EE01B

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-9

Sample wt/vol: 1.1 (g/mL) G Lab File ID: EE01B-9A70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Extraction: (Type) SONC

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	11.25	4200	NJ
2. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	12.33	3800	NJ
3.	UNKNOWN	12.75	3200	J
4.	UNKNOWN	19.70	3400	J
5.	UNKNOWN	19.83	2700	J
6.	UNKNOWN	20.02	2300	J
7.	UNKNOWN	20.14	3000	J
8.	UNKNOWN	20.21	4700	J
9.	UNKNOWN	20.32	4400	J
10.	UNKNOWN	20.37	3600	J
11.	UNKNOWN	20.42	3700	J
12.	UNKNOWN	20.73	3600	J
13.	UNKNOWN	20.78	5500	J
14.	UNKNOWN	20.93	3800	J
15.	UNKNOWN	21.07	3900	J
16.	UNKNOWN	21.17	4500	J
17.	UNKNOWN	21.44	4000	J
18. 53584-60-4	28-NOR-17.ALPHA.(H)-HOPANE	21.54	6500	NJ
19.	UNKNOWN	22.08	12000	J
20.	UNKNOWN	22.37	3400	J
21.	UNKNOWN	22.57	3500	J
22.	UNKNOWN	22.81	9200	J
23.	UNKNOWN	22.91	9200	J
24.	UNKNOWN	23.09	6100	J
25.	UNKNOWN	23.21	4600	J
26.	UNKNOWN	23.47	6800	J
27.	UNKNOWN	23.64	5000	J
28.	UNKNOWN	24.38	6000	J
29.	UNKNOWN	25.51	5200	J
30.	UNKNOWN	26.53	5800	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01C

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-10

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01B-10B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	460	U
108-95-2	Phenol	460	U
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
98-86-2	Acetophenone	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-di-n-propylamine	460	U
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	460	U
111-91-1	bis(2-Chloroethoxy)methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	460	U
59-50-7	4-Chloro-3-methylphenol	460	U
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	460	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01C

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-10

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01B-10B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	460	U
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
86-73-7	Fluorene	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
1912-24-9	Atrazine	460	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	460	U
120-12-7	Anthracene	460	U
86-74-8	Carbazole	460	U
84-74-2	Di-n-butylphthalate	460	U
206-44-0	Fluoranthene	460	U
129-00-0	Pyrene	200	J
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	460	U
218-01-9	Chrysene	96	J
117-81-7	bis(2-Ethylhexyl)phthalate	220	J
117-84-0	Di-n-octylphthalate	1000	
205-99-2	Benzo(b)fluoranthene	460	U
207-08-9	Benzo(k)fluoranthene	460	U
50-32-8	Benzo(a)pyrene	460	U
193-39-5	Indeno(1,2,3-cd)pyrene	460	U
53-70-3	Dibenzo(a,h)anthracene	460	U
191-24-2	Benzo(g,h,i)perylene	460	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE01C

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01B-10B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 29 Decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 32

10 Jee 11/27/00

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	7.12	1600	JB U
2.	UNKNOWN (BC)	8.63	510	JB U
3.	UNKNOWN	19.31	400	J
4. 16587-34-1	NAPHTHO[2,3-B]THIOPHENE, 4,9	19.49	460	NJ
5.	UNKNOWN	19.69	490	J
6.	UNKNOWN	19.83	370	J
7.	UNKNOWN	19.93	450	J
8.	UNKNOWN	20.07	450	J
9.	UNKNOWN	20.35	380	J
10. 3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHY	20.40	480	NJ
11. 3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHY	20.47	600	NJ
12.	UNKNOWN	20.84	640	J
13.	METHYLPYRENE	21.00	410	J
14.	UNKNOWN	21.30	410	J
15.	UNKNOWN	21.37	510	J
16. 103-23-1	HEXANEDIOIC ACID, BIS(2-ETHY	21.72	650	NJ
17.	UNKNOWN	21.84	430	J
18.	UNKNOWN	23.16	470	J
19.	UNKNOWN	23.34	770	J
20.	UNKNOWN PHTHALATE	23.63	2300	J
21. 28553-12-0	1,2-BENZENEDICARBOXYLIC ACID	23.75	2400	NJ
22.	UNKNOWN	23.83	1000	J
23.	UNKNOWN PHTHALATE	23.92	1400	J
24.	UNKNOWN PHTHALATE	23.97	1500	J
25.	UNKNOWN	24.04	1700	J
26.	UNKNOWN PHTHALATE	24.09	960	J
27.	UNKNOWN PHTHALATE	24.17	690	J
28. 73105-67-6	1-IODO-2-METHYLUNDECANE	24.21	890	NJ
29.	UNKNOWN PHTHALATE	24.29	580	J
30.	UNKNOWN	24.54	380	J

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1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01C

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01B-10B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 29 Decanted: (Y/N) N Date Extracted:11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

Number TICs found: 32

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	25.93	370	J
2.	UNKNOWN	27.94	570	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01D

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-11

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01B-11B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	390	U
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
98-86-2	Acetophenone	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	110	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	990	U
92-52-4	1,1'-Biphenyl	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	990	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	390	U
99-09-2	3-Nitroaniline	990	U
83-32-9	Acenaphthene	390	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01D

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-11

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01B-11B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	990	U
100-02-7	4-Nitrophenol	990	U
132-64-9	Dibenzofuran	42	J
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	990	U
534-52-1	4,6-Dinitro-2-methylphenol	990	U
86-30-6	N-nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	990	U
85-01-8	Phenanthrene	250	J
120-12-7	Anthracene	50	J
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	260	J
129-00-0	Pyrene	350	J
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	130	J
218-01-9	Chrysene	160	J
117-81-7	bis(2-Ethylhexyl)phthalate	52	J
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	240	XJ
207-08-9	Benzo(k)fluoranthene	190	XJ
50-32-8	Benzo(a)pyrene	130	J
193-39-5	Indeno(1,2,3-cd)pyrene	91	J
53-70-3	Dibenzo(a,h)anthracene	45	J
191-24-2	Benzo(g,h,i)perylene	100	J

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE01D

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01B-11B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 16 Decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

Number TICs found: 29

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	7.12	1000	JB
2.	UNKNOWN	18.28	300	J
3.	UNKNOWN	18.77	490	J
4. 1961-96-2	1H-INDENE, 1-PHENYL-	18.80	370	NJ
5.	UNKNOWN	18.85	350	J
6.	METHYLPHENANTHRENE	18.93	730	J
7.	UNKNOWN	19.00	530	J
8. 57-10-3	HEXADECANOIC ACID	19.09	790	NJ
9.	UNKNOWN	19.17	650	J
10.	UNKNOWN	19.44	580	J
11.	UNKNOWN	19.56	1300	J
12. 3674-69-9	PHENANTHRENE, 4,5-DIMETHYL-	19.69	900	NJ
13.	UNKNOWN	19.75	740	J
14.	UNKNOWN	20.08	390	J
15.	UNKNOWN	20.13	770	J
16. 544-63-8	TETRADECANOIC ACID	20.35	1200	NJ
17.	UNKNOWN	20.46	710	J
18. 68194-12-7	1,1'-BIPHENYL, 2,3',4,5,5'-P	20.69	570	NJ
19.	UNKNOWN	20.83	520	J
20.	UNKNOWN	20.93	480	J
21.	METHYLPYRENE	20.98	740	J
22. 53-19-0	MITOTANE	21.13	720	NJ
23.	UNKNOWN	21.30	780	J
24.	UNKNOWN	21.47	840	J
25.	UNKNOWN	21.52	620	J
26.	UNKNOWN	21.79	610	J
27.	UNKNOWN	21.96	630	J
28.	UNKNOWN	25.14	790	J
29.	UNKNOWN	25.54	630	J
30.				

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01E

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-12

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01B-12B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	420	U
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
98-86-2	Acetophenone	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	420	U

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01E

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0:

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-12

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01B-12B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	120	J
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

EE01E

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01B-12B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 21 Decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

Number TICs found: 10

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

11/27/00

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	7.12	1200	JB
2.	UNKNOWN (BC)	8.63	280	JB
3.	UNKNOWN PHTHALATE	23.33	130	J
4.	UNKNOWN PHTHALATE	23.61	400	J
5.	UNKNOWN PHTHALATE	23.82	200	J
6.	UNKNOWN	23.90	300	J
7.	UNKNOWN PHTHALATE	23.94	270	J
8.	UNKNOWN PHTHALATE	24.02	270	J
9.	UNKNOWN PHTHALATE	24.07	160	J
10.	UNKNOWN	26.00	250	J
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EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01F

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-13

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01B-13B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 8 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	360	U
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
98-86-2	Acetophenone	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
91-20-3	Naphthalene	250	J
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
105-60-2	Caprolactam	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	890	
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	900	U
92-52-4	1,1'-Biphenyl	360	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	900	U
131-11-3	Dimethylphthalate	360	U
606-20-2	2,6-Dinitrotoluene	360	U
208-96-8	Acenaphthylene	360	U
99-09-2	3-Nitroaniline	900	U
83-32-9	Acenaphthene	360	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01F

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-13

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01B-13B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 8 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	900	U
100-02-7	4-Nitrophenol	900	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
86-73-7	Fluorene	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
100-01-6	4-Nitroaniline	900	U
534-52-1	4,6-Dinitro-2-methylphenol	900	U
86-30-6	N-nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
1912-24-9	Atrazine	360	U
87-86-5	Pentachlorophenol	900	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	850	
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE01F

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE(

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01B-13B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 8 Decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Extraction: (Type) SONC

Number TICs found: 31

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Wlee 11/27/00

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	7.11	920	JB 4
2.	UNKNOWN	8.90	550	J
3.	UNKNOWN	9.74	430	J
4. 135-98-8	BENZENE, (1-METHYLPROPYL)-	9.91	850	NJ
5. 2870-04-4	BENZENE, 2-ETHYL-1,3-DIMETHY	10.18	890	NJ
6. 934-80-5	BENZENE, 4-ETHYL-1,2-DIMETHY	10.37	960	NJ
7. 95-93-2	BENZENE, 1,2,4,5-TETRAMETHYL	10.98	530	N
8. 933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHY	11.06	610	NJ
9.	UNKNOWN	11.38	520	J
10.	UNKNOWN	11.53	510	J
11. 767-58-8	INDAN, 1-METHYL-	11.57	320	NJ
12.	UNKNOWN	11.65	390	J
13.	UNKNOWN	11.72	450	J
14. 54120-62-6	BENZENE, ETHYL-1,2,4-TRIMETH	11.90	390	NJ
15. 2049-95-8	BENZENE, (1,1-DIMETHYLPROPYL	11.99	360	NJ
16. 56253-64-6	BENZENE, (2-METHYL-1-BUTENYL	12.17	480	NJ
17.	UNKNOWN	12.33	720	J
18.	UNKNOWN	12.70	270	J
19. 17057-82-8	1H-INDENE, 2,3-DIHYDRO-1,2-D	13.02	510	NJ
20. 6682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-D	13.19	430	NJ
21.	SUBSTITUTED BENZENE	13.41	340	J
22. 90-12-0	NAPHTHALENE, 1-METHYL-	13.76	320	NJ
23.	UNKNOWN PHTHALATE	22.38	460	J
24. 117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	22.45	580	NJ
25. 27554-26-3	1,2-BENZENEDICARBOXYLIC ACID	22.69	1100	NJ
26. 10152-69-9	CYCLOPROPANENONANOIC ACID, 2	22.77	1800	NJ
27.	UNKNOWN	22.87	1100	J
28. 10152-69-9	CYCLOPROPANENONANOIC ACID, 2	22.97	790	NJ
29. 10152-69-9	CYCLOPROPANENONANOIC ACID, 2	23.06	1200	NJ
30.	UNKNOWN PHTHALATE	23.11	370	J

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01F

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01B-13B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 8 Decanted: (Y/N) N Date Extracted:11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Extraction: (Type) SONC

Number TICs found: 31

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	26.01	1100	J
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EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01G

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-14

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01B-14B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	420	U
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
98-86-2	Acetophenone	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	150	J
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	1100	
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	420	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01G

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-14

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01B-14B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	600	
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

(1) - Cannot be separated from Diphenylamine

EPA SAMPLE NO.

EE01G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01B-14B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 21 Decanted: (Y/N) N Date Extracted:11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

Number TICs found: 32 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	7.14	730	JB
2.	UNKNOWN (BC)	8.63	340	JB
3.	UNKNOWN	8.90	320	J
4.	UNKNOWN	9.66	540	J
5. 135-98-8	BENZENE, (1-METHYLPROPYL)-	9.91	680	NJ
6. 933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHY	10.37	1500	NJ
7. 874-41-9	BENZENE, 1-ETHYL-2,4-DIMETHY	10.77	270	NJ
8. 95-93-2	BENZENE, 1,2,4,5-TETRAMETHYL	10.97	690	NJ
9.	UNKNOWN	11.38	640	J
10. 767-58-8	INDAN, 1-METHYL-	11.57	680	NJ
11. 874-41-9	BENZENE, 1-ETHYL-2,4-DIMETHY	11.62	340	NJ
12.	SUBSTITUTED BENZENE	11.72	270	J
13.	SUBSTITUTED BENZENE	11.87	290	J
14. 54120-62-6	BENZENE, ETHYL-1,2,4-TRIMETH	11.90	380	NJ
15.	SUBSTITUTED BENZENE	11.99	420	J
16. 56253-64-6	BENZENE, (2-METHYL-1-BUTENYL	12.17	530	NJ
17.	SUBSTITUTED BENZENE	12.26	250	J
18.	UNKNOWN	12.33	600	J
19. 0-00-0	1,5,6,7-TETRAMETHYLBICYCLO[3	12.50	230	NJ
20.	UNKNOWN	12.70	210	J
21.	UNKNOWN	12.83	280	J
22. 1559-81-5	NAPHTHALENE, 1,2,3,4-TETRAHY	13.02	470	NJ
23. 1559-81-5	NAPHTHALENE, 1,2,3,4-TETRAHY	13.19	340	NJ
24. 20294-32-0	6-METHYL-4-INDANOL	13.41	330	NJ
25. 90-12-0	NAPHTHALENE, 1-METHYL-	13.76	340	NJ
26. 582-16-1	NAPHTHALENE, 2,7-DIMETHYL-	14.90	350	NJ
27.	UNKNOWN PHTHALATE	22.38	280	J
28.	UNKNOWN PHTHALATE	22.43	300	J
29.	UNKNOWN PHTHALATE	22.69	620	J
30.	UNKNOWN PHTHALATE	22.74	990	J

1G

EPA SAMPLE NO.

EE01G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01B-14B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 21 Decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

Number TICs found: 32

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN PHTHALATE	22.85	440	J
2.	UNKNOWN PHTHALATE	22.96	420	J
3.				
4.				
5.				
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FORM I SV-TIC OLM04.2

1C

EPA SAMPLE No.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01H

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE(

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-15

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01B-15D2A70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	800	U
108-95-2	Phenol	800	U
111-44-4	bis(2-Chloroethyl)ether	800	U
95-57-8	2-Chlorophenol	800	U
95-48-7	2-Methylphenol	800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	800	U
98-86-2	Acetophenone	800	U
106-44-5	4-Methylphenol	800	U
621-64-7	N-Nitroso-di-n-propylamine	800	U
67-72-1	Hexachloroethane	800	U
98-95-3	Nitrobenzene	800	U
78-59-1	Isophorone	800	U
88-75-5	2-Nitrophenol	800	U
105-67-9	2,4-Dimethylphenol	800	U
111-91-1	bis(2-Chloroethoxy)methane	800	U
120-83-2	2,4-Dichlorophenol	800	U
91-20-3	Naphthalene	2500	
106-47-8	4-Chloroaniline	800	U
87-68-3	Hexachlorobutadiene	800	U
105-60-2	Caprolactam	800	U
59-50-7	4-Chloro-3-methylphenol	800	U
91-57-6	2-Methylnaphthalene	2000	
77-47-4	Hexachlorocyclopentadiene	800	U
88-06-2	2,4,6-Trichlorophenol	800	U
95-95-4	2,4,5-Trichlorophenol	2000	U
92-52-4	1,1'-Biphenyl	110	J
91-58-7	2-Chloronaphthalene	800	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	800	U
606-20-2	2,6-Dinitrotoluene	800	U
208-96-8	Acenaphthylene	800	U
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	800	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01H

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-15

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01B-15D2A70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	800	U
121-14-2	2,4-Dinitrotoluene	800	U
84-66-2	Diethylphthalate	800	U
86-73-7	Fluorene	800	U
7005-72-3	4-Chlorophenyl-phenylether	800	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
86-30-6	N-nitrosodiphenylamine (1)	800	U
101-55-3	4-Bromophenyl-phenylether	800	U
118-74-1	Hexachlorobenzene	800	U
1912-24-9	Atrazine	800	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	180	J
120-12-7	Anthracene	800	U
86-74-8	Carbazole	800	U
84-74-2	Di-n-butylphthalate	800	U
206-44-0	Fluoranthene	800	U
129-00-0	Pyrene	370	J
85-68-7	Butylbenzylphthalate	800	U
91-94-1	3,3'-Dichlorobenzidine	800	U
56-55-3	Benzo(a)anthracene	800	U
218-01-9	Chrysene	120	J
117-81-7	bis(2-Ethylhexyl)phthalate	800	U
117-84-0	Di-n-octylphthalate	800	U
205-99-2	Benzo(b)fluoranthene	800	U
207-08-9	Benzo(k)fluoranthene	800	U
50-32-8	Benzo(a)pyrene	800	U
193-39-5	Indeno(1,2,3-cd)pyrene	800	U
53-70-3	Dibenzo(a,h)anthracene	800	U
191-24-2	Benzo(g,h,i)perylene	800	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

EE01H

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01B-15D2A70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 18 Decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

Number TICs found: 30

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	7.26	5400	NJ
2. 95-36-3	1,2,4-TRIMETHYLBENZENE	8.09	6900	NJ
3. 95-36-3	1,2,4-TRIMETHYLBENZENE	8.80	2200	NJ
4. 1074-43-7	BENZENE, 1-METHYL-3-PROPYL-	9.54	2900	NJ
5.	SUBSTITUTED BENZENE	9.62	1500	J
6. 874-41-9	BENZENE, 1-ETHYL-2,4-DIMETHY	9.72	2600	NJ
7. 874-41-9	BENZENE, 1-ETHYL-2,4-DIMETHY	10.20	3300	N
8.	SUBSTITUTED BENZENE	10.35	4100	J
9. 933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHY	10.98	2200	NJ
10. 527-84-4	BENZENE, 1-METHYL-2-(1-METHY	11.06	2500	NJ
11. 1587-04-8	BENZENE, 1-METHYL-2-(2-PROPE	11.38	2300	NJ
12.	SUBSTITUTED BENZENE	11.53	2300	J
13. 27133-93-3	2,3-DIHYDRO-1-METHYLINDENE	11.57	1700	NJ
14.	UNKNOWN	11.65	1500	J
15.	UNKNOWN	11.72	1300	J
16.	UNKNOWN	12.17	2200	J
17. 17057-82-8	1H-INDENE, 2,3-DIHYDRO-1,2-D	12.33	1900	NJ
18.	UNKNOWN	12.83	1500	J
19.	UNKNOWN	12.87	1600	J
20. 4175-53-5	1H-INDENE, 2,3-DIHYDRO-1,3-D	13.04	3600	NJ
21.	UNKNOWN	13.14	2300	J
22.	UNKNOWN	13.19	2500	J
23.	UNKNOWN	13.36	1800	J
24.	UNKNOWN	13.41	1300	J
25. 90-12-0	NAPHTHALENE, 1-METHYL-	13.78	2000	NJ
26. 571-61-9	NAPHTHALENE, 1,5-DIMETHYL-	14.76	1800	NJ
27. 575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	14.91	2300	NJ
28.	UNKNOWN	15.30	900	J
29. 2027-17-0	NAPHTHALENE, 2-(1-METHYLETHY	15.69	850	NJ
30. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	16.10	1200	NJ

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01J

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-16

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01B-16B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 25 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	440	U
108-95-2	Phenol	440	U
111-44-4	bis(2-Chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
98-86-2	Acetophenone	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
105-60-2	Caprolactam	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	440	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	440	U
606-20-2	2,6-Dinitrotoluene	440	U
208-96-8	Acenaphthylene	440	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	50	J

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01J

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-16

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01B-16B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 25 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	47	J
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
86-73-7	Fluorene	66	J
7005-72-3	4-Chlorophenyl-phenylether	440	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
1912-24-9	Atrazine	440	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	69	J
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	440	U
129-00-0	Pyrene	46	J
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	440	U
218-01-9	Chrysene	440	U
117-81-7	bis(2-Ethylhexyl)phthalate	460	
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenzo(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE01J

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01B-16B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 25 Decanted: (Y/N) N Date Extracted:11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 29

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	7.13	1800	JB
2.	UNKNOWN	13.55	1000	J
3.	UNKNOWN	14.09	630	J
4.	UNKNOWN	14.58	490	J
5.	SUBSTITUTED NAPHTHALENE	14.63	540	J
6. 582-16-1	NAPHTHALENE, 2,7-DIMETHYL-	14.76	800	NJ
7. 575-43-9	NAPHTHALENE, 1,6-DIMETHYL-	14.92	900	NJ
8.	UNKNOWN	14.98	590	J
9.	UNKNOWN	15.30	460	J
10.	UNKNOWN	15.39	570	J
11.	UNKNOWN	15.54	780	J
12. 2027-17-0	NAPHTHALENE, 2-(1-METHYLETHY	15.69	990	NJ
13.	UNKNOWN	15.85	410	J
14.	UNKNOWN	15.88	450	J
15.	UNKNOWN	16.00	490	J
16. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	16.06	850	NJ
17. 2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL	16.22	710	NJ
18.	UNKNOWN	16.35	600	J
19.	UNKNOWN	16.42	720	J
20.	UNKNOWN	16.50	520	J
21.	UNKNOWN	16.57	490	J
22.	UNKNOWN	16.69	390	J
23.	UNKNOWN	17.38	420	J
24.	UNKNOWN	17.43	390	J
25.	UNKNOWN	17.59	560	J
26.	UNKNOWN	17.75	450	J
27.	UNKNOWN PHTHALATE	23.47	1000	J
28. 28553-12-0	1,2-BENZENEDICARBOXYLIC ACID	23.62	910	NJ
29.	UNKNOWN PHTHALATE	23.96	880	J
30.				

FORM I SV-TIC OLM04.2

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01CMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: WG6756-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG6756-2B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	66	J
108-95-2	Phenol	2600	
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	2600	
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
98-86-2	Acetophenone	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-di-n-propylamine	1700	
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	460	U
111-91-1	bis(2-Chloroethoxy)methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	460	U
59-50-7	4-Chloro-3-methylphenol	2400	
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	1700	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01CMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6756-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG6756-2B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	2700	
132-64-9	Dibenzofuran	53	J
121-14-2	2,4-Dinitrotoluene	1400	
84-66-2	Diethylphthalate	460	U
86-73-7	Fluorene	140	J
7005-72-3	4-Chlorophenyl-phenylether	460	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
1912-24-9	Atrazine	460	U
87-86-5	Pentachlorophenol	1800	
85-01-8	Phenanthrene	460	U
120-12-7	Anthracene	460	U
86-74-8	Carbazole	330	J
84-74-2	Di-n-butylphthalate	460	U
206-44-0	Fluoranthene	460	U
129-00-0	Pyrene	4600	E
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	480	
218-01-9	Chrysene	1200	
117-81-7	bis(2-Ethylhexyl)phthalate	460	U
117-84-0	Di-n-octylphthalate	460	U
205-99-2	Benzo(b)fluoranthene	230	XJ
207-08-9	Benzo(k)fluoranthene	180	XJ
50-32-8	Benzo(a)pyrene	200	J
193-39-5	Indeno(1,2,3-cd)pyrene	97	J
53-70-3	Dibenzo(a,h)anthracene	460	U
191-24-2	Benzo(g,h,i)perylene	220	J

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01BMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: WG6768-2

Sample wt/vol: 1.0(g/mL) G Lab File ID: WG6768-2A70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	9900	U
108-95-2	Phenol	25000	
111-44-4	bis(2-Chloroethyl)ether	9900	U
95-57-8	2-Chlorophenol	26000	
95-48-7	2-Methylphenol	9900	U
108-60-1	2,2'-oxybis(1-Chloropropane)	9900	U
98-86-2	Acetophenone	9900	U
106-44-5	4-Methylphenol	9900	U
621-64-7	N-Nitroso-di-n-propylamine	16000	
67-72-1	Hexachloroethane	9900	U
98-95-3	Nitrobenzene	9900	U
78-59-1	Isophorone	9900	U
88-75-5	2-Nitrophenol	9900	U
105-67-9	2,4-Dimethylphenol	9900	U
111-91-1	bis(2-Chloroethoxy)methane	9900	U
120-83-2	2,4-Dichlorophenol	9900	U
91-20-3	Naphthalene	9900	U
106-47-8	4-Chloroaniline	9900	U
87-68-3	Hexachlorobutadiene	9900	U
105-60-2	Caprolactam	9900	U
59-50-7	4-Chloro-3-methylphenol	26000	
91-57-6	2-Methylnaphthalene	9900	U
77-47-4	Hexachlorocyclopentadiene	9900	U
88-06-2	2,4,6-Trichlorophenol	9900	U
95-95-4	2,4,5-Trichlorophenol	25000	U
92-52-4	1,1'-Biphenyl	9900	U
91-58-7	2-Chloronaphthalene	9900	U
88-74-4	2-Nitroaniline	25000	U
131-11-3	Dimethylphthalate	9900	U
606-20-2	2,6-Dinitrotoluene	9900	U
208-96-8	Acenaphthylene	9900	U
99-09-2	3-Nitroaniline	25000	U
83-32-9	Acenaphthene	18000	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01BMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6768-2

Sample wt/vol: 1.0(g/mL) G Lab File ID: WG6768-2A70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	25000	U
100-02-7	4-Nitrophenol	19000	J
132-64-9	Dibenzofuran	9900	U
121-14-2	2,4-Dinitrotoluene	16000	
84-66-2	Diethylphthalate	9900	U
86-73-7	Fluorene	9900	U
7005-72-3	4-Chlorophenyl-phenylether	9900	U
100-01-6	4-Nitroaniline	25000	U
534-52-1	4,6-Dinitro-2-methylphenol	25000	U
86-30-6	N-nitrosodiphenylamine (1)	9900	U
101-55-3	4-Bromophenyl-phenylether	9900	U
118-74-1	Hexachlorobenzene	9900	U
1912-24-9	Atrazine	9900	U
87-86-5	Pentachlorophenol	20000	J
85-01-8	Phenanthrene	9900	U
120-12-7	Anthracene	9900	U
86-74-8	Carbazole	9900	U
84-74-2	Di-n-butylphthalate	9900	U
206-44-0	Fluoranthene	9900	U
129-00-0	Pyrene	15000	
85-68-7	Butylbenzylphthalate	9900	U
91-94-1	3,3'-Dichlorobenzidine	9900	U
56-55-3	Benzo(a)anthracene	9900	U
218-01-9	Chrysene	9900	U
117-81-7	bis(2-Ethylhexyl)phthalate	9900	U
117-84-0	Di-n-octylphthalate	9900	U
205-99-2	Benzo(b)fluoranthene	9900	U
207-08-9	Benzo(k)fluoranthene	9900	U
50-32-8	Benzo(a)pyrene	9900	U
193-39-5	Indeno(1,2,3-cd)pyrene	9900	U
53-70-3	Dibenzo(a,h)anthracene	9900	U
191-24-2	Benzo(g,h,i)perylene	9900	U

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01CMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: WG6756-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG6756-3B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	460	U
108-95-2	Phenol	2700	
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	2800	
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
98-86-2	Acetophenone	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-di-n-propylamine	1800	
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	460	U
111-91-1	bis(2-Chloroethoxy)methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	460	U
59-50-7	4-Chloro-3-methylphenol	2600	
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	1700	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01CMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6756-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG6756-3B70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	2900	
132-64-9	Dibenzofuran	460	U
121-14-2	2,4-Dinitrotoluene	1600	
84-66-2	Diethylphthalate	460	U
86-73-7	Fluorene	77	J
7005-72-3	4-Chlorophenyl-phenylether	460	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
1912-24-9	Atrazine	460	U
87-86-5	Pentachlorophenol	2400	
85-01-8	Phenanthrene	460	U
120-12-7	Anthracene	460	U
86-74-8	Carbazole	460	U
84-74-2	Di-n-butylphthalate	460	U
206-44-0	Fluoranthene	460	U
129-00-0	Pyrene	3500	
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	210	J
218-01-9	Chrysene	600	
117-81-7	bis(2-Ethylhexyl)phthalate	280	J
117-84-0	Di-n-octylphthalate	460	U
205-99-2	Benzo(b)fluoranthene	110	XJ
207-08-9	Benzo(k)fluoranthene	140	XJ
50-32-8	Benzo(a)pyrene	96	J
193-39-5	Indeno(1,2,3-cd)pyrene	64	J
53-70-3	Dibenzo(a,h)anthracene	460	U
191-24-2	Benzo(g,h,i)perylene	140	J

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01BMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: WG6768-3

Sample wt/vol: 1.0(g/mL) G Lab File ID: WG6768-3A70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	9900	U
108-95-2	Phenol	22000	
111-44-4	bis(2-Chloroethyl)ether	9900	U
95-57-8	2-Chlorophenol	25000	
95-48-7	2-Methylphenol	9900	U
108-60-1	2,2'-oxybis(1-Chloropropane)	9900	U
98-86-2	Acetophenone	9900	U
106-44-5	4-Methylphenol	9900	U
621-64-7	N-Nitroso-di-n-propylamine	16000	
67-72-1	Hexachloroethane	9900	U
98-95-3	Nitrobenzene	9900	U
78-59-1	Isophorone	9900	U
88-75-5	2-Nitrophenol	9900	U
105-67-9	2,4-Dimethylphenol	9900	U
111-91-1	bis(2-Chloroethoxy)methane	9900	U
120-83-2	2,4-Dichlorophenol	9900	U
91-20-3	Naphthalene	9900	U
106-47-8	4-Chloroaniline	9900	U
87-68-3	Hexachlorobutadiene	9900	U
105-60-2	Caprolactam	9900	U
59-50-7	4-Chloro-3-methylphenol	26000	
91-57-6	2-Methylnaphthalene	9900	U
77-47-4	Hexachlorocyclopentadiene	9900	U
88-06-2	2,4,6-Trichlorophenol	9900	U
95-95-4	2,4,5-Trichlorophenol	25000	U
92-52-4	1,1'-Biphenyl	9900	U
91-58-7	2-Chloronaphthalene	9900	U
88-74-4	2-Nitroaniline	25000	U
131-11-3	Dimethylphthalate	9900	U
606-20-2	2,6-Dinitrotoluene	9900	U
208-96-8	Acenaphthylene	9900	U
99-09-2	3-Nitroaniline	25000	U
83-32-9	Acenaphthene	15000	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01BMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6768-3

Sample wt/vol: 1.0(g/mL) G Lab File ID: WG6768-3A70

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	25000	U
100-02-7	4-Nitrophenol	17000	J
132-64-9	Dibenzofuran	9900	U
121-14-2	2,4-Dinitrotoluene	13000	
84-66-2	Diethylphthalate	9900	U
86-73-7	Fluorene	9900	U
7005-72-3	4-Chlorophenyl-phenylether	9900	U
100-01-6	4-Nitroaniline	25000	U
534-52-1	4,6-Dinitro-2-methylphenol	25000	U
86-30-6	N-nitrosodiphenylamine (1)	9900	U
101-55-3	4-Bromophenyl-phenylether	9900	U
118-74-1	Hexachlorobenzene	9900	U
1912-24-9	Atrazine	9900	U
87-86-5	Pentachlorophenol	16000	J
85-01-8	Phenanthrene	9900	U
120-12-7	Anthracene	9900	U
86-74-8	Carbazole	9900	U
84-74-2	Di-n-butylphthalate	9900	U
206-44-0	Fluoranthene	9900	U
129-00-0	Pyrene	16000	
85-68-7	Butylbenzylphthalate	9900	U
91-94-1	3,3'-Dichlorobenzidine	9900	U
56-55-3	Benzo(a)anthracene	9900	U
218-01-9	Chrysene	9900	U
117-81-7	bis(2-Ethylhexyl)phthalate	9900	U
117-84-0	Di-n-octylphthalate	9900	U
205-99-2	Benzo(b)fluoranthene	9900	U
207-08-9	Benzo(k)fluoranthene	9900	U
50-32-8	Benzo(a)pyrene	9900	U
193-39-5	Indeno(1,2,3-cd)pyrene	9900	U
53-70-3	Dibenzo(a,h)anthracene	9900	U
191-24-2	Benzo(g,h,i)perylene	9900	U

(1) - Cannot be separated from Diphenylamine

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2 ID:0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKSW	123	162*	131	138			1
02	PBLKTA	113	110	123	115			0
03	EE01D	113	75	106	94			0
04	EE01C	84	95	89	84			0
05	EE01E	129	112	112	129			0
06	EE01F	100	100	100	114			0
07	EE01G	124	124	118	106			0
08	EE01H	200*	81	150	219*			2
09	EE01J	144	117	83	94			0
10	EE01B	81	83	98	129			0
11	EE01CMS	111	84	105	95			0
12	EE01CMSD	121	89	126	95			0
13	EE01BMS	79	74	79	90			0
14	EE01BMSD	72	64	85	113			0
15	EE01CDL	111	89	79	84			0
16	EE01DDL	150	113	69	1188D			0
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix Spike - EPA Sample No.: EE01B

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	520	0.0	340	65	46-127
Heptachlor	520	0.0	360	69	35-130
Aldrin	520	0.0	380	73	34-132
Dieldrin	1000	0.0	760	76	31-134
Endrin	1000	27	820	79	42-139
4,4'-DDT	1000	43	850	81	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	490	310	63	3	50	46-127
Heptachlor	490	310	63	9	31	35-130
Aldrin	490	310	63	15	43	34-132
Dieldrin	980	630	64	17	38	31-134
Endrin	980	700	69	14	45	42-139
4,4'-DDT	980	690	66	20	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix Spike - EPA Sample No.: EE01C

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	23	0.75	16	66	46-127
Heptachlor	23	0.0	11	48	35-130
Aldrin	23	0.0	15	65	34-132
Dieldrin	47	0.0	32	68	31-134
Endrin	47	2.8	36	71	42-139
4,4'-DDT	47	0.0	37	79	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	23	18	75	13	50	46-127
Heptachlor	23	14	61	24	31	35-130
Aldrin	23	16	70	7	43	34-132
Dieldrin	47	36	77	12	38	31-134
Endrin	47	40	79	11	45	42-139
4,4'-DDT	47	38	81	3	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKSW

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Lab Sample ID: WG6757-1 Lab File ID: _____

Matrix (soil/water) SOIL Extraction:(Type) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 11/07/00

Date Analyzed (1): 11/15/00 Date Analyzed (2): 11/15/00

Time Analyzed (1): 0452 Time Analyzed (2): 0452

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC83

GC Column (1): CLPEST ID: 0.53(mm) GC Column (2): CLPEST2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EE01D	EE01B-11	11/15/00	11/15/00
02	EE01C	EE01B-10	11/15/00	11/15/00
03	EE01E	EE01B-12	11/15/00	11/15/00
04	EE01F	EE01B-13	11/15/00	11/15/00
05	EE01G	EE01B-14	11/15/00	11/15/00
06	EE01H	EE01B-15	11/15/00	11/15/00
07	EE01J	EE01B-16	11/15/00	11/15/00
08	EE01CMS	WG6757-2	11/15/00	11/15/00
09	EE01CMSD	WG6757-3	11/15/00	11/15/00
10	EE01CDL	EE01B-10	11/15/00	11/15/00
11	EE01DDL	EE01B-11	11/15/00	11/15/00
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST OLM04.2

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKTA

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Lab Sample ID: WG6767-1 Lab File ID: _____

Matrix (soil/water) SOIL Extraction:(Type) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 11/07/00

Date Analyzed (1): 11/15/00 Date Analyzed (2): 11/15/00

Time Analyzed (1): 0515 Time Analyzed (2): 0515

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC83

GC Column (1): CLPEST ID: 0.53(mm) GC Column (2): CLPEST2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EE01B	E001B-9	11/15/00	11/15/00
02	EE01BMS	WG6767-2	11/15/00	11/15/00
03	EE01BMSD	WG6767-3	11/15/00	11/15/00
04				
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COMMENTS: _____

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKSW

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6757-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/15/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKTA

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01L

Matrix: (soil/water) SOIL Lab Sample ID: WG6767-1

Sample wt/vol: 1.0(g/mL) G Lab File ID: _____

% Moisture: 0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/15/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	51	U
319-85-7	beta-BHC	51	U
319-86-8	delta-BHC	51	U
58-89-9	gamma-BHC (Lindane)	51	U
76-44-8	Heptachlor	51	U
309-00-2	Aldrin	51	U
1024-57-3	Heptachlor epoxide	51	U
959-98-8	Endosulfan I	51	U
60-57-1	Dieldrin	99	U
72-55-9	4,4'-DDE	99	U
72-20-8	Endrin	99	U
33213-65-9	Endosulfan II	99	U
72-54-8	4,4'-DDD	99	U
1031-07-8	Endosulfan sulfate	99	U
50-29-3	4,4'-DDT	99	U
72-43-5	Methoxychlor	510	U
53494-70-5	Endrin ketone	99	U
7421-93-4	Endrin aldehyde	99	U
5103-71-9	alpha-Chlordane	51	U
5103-74-2	gamma-Chlordane	51	U
8001-35-2	Toxaphene	5100	U
12674-11-2	Aroclor-1016	990	U
11104-28-2	Aroclor-1221	2000	U
11141-16-5	Aroclor-1232	990	U
53469-21-9	Aroclor-1242	990	U
12672-29-6	Aroclor-1248	990	U
11097-69-1	Aroclor-1254	990	U
11096-82-5	Aroclor-1260	990	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01B

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: E001B-9

Sample wt/vol: 1.0(g/mL) G Lab File ID: _____

% Moisture: 0 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/15/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	53	U
319-85-7	beta-BHC	53	U
319-86-8	delta-BHC	53	U
58-89-9	gamma-BHC (Lindane)	53	U
76-44-8	Heptachlor	53	U
309-00-2	Aldrin	53	U
1024-57-3	Heptachlor epoxide	4.3	JP
959-98-8	Endosulfan I	1.0	JP
60-57-1	Dieldrin	100	U
72-55-9	4,4'-DDE	6.7	J
72-20-8	Endrin	27	J
33213-65-9	Endosulfan II	100	U
72-54-8	4,4'-DDD	31	JP
1031-07-8	Endosulfan sulfate	100	U
50-29-3	4,4'-DDT	43	JP
72-43-5	Methoxychlor	35	JP
53494-70-5	Endrin ketone	7.8	JP
7421-93-4	Endrin aldehyde	17	JP
5103-71-9	alpha-Chlordane	4.7	JP
5103-74-2	gamma-Chlordane	53	U
8001-35-2	Toxaphene	5300	U
12674-11-2	Aroclor-1016	1000	U
11104-28-2	Aroclor-1221	2100	U
11141-16-5	Aroclor-1232	1000	U
53469-21-9	Aroclor-1242	1000	U
12672-29-6	Aroclor-1248	1000	U
11097-69-1	Aroclor-1254	1000	U
11096-82-5	Aroclor-1260	1000	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01C

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01L

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-10

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 29 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/15/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	0.75	JP
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	4.6	U
72-55-9	4,4'-DDE	4.6	U
72-20-8	Endrin	2.8	JP
33213-65-9	Endosulfan II	4.6	U
72-54-8	4,4'-DDD	2.0	J
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	4.6	U
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	1.1	JP
7421-93-4	Endrin aldehyde	1.6	JP
5103-71-9	alpha-Chlordane	0.39	JP
5103-74-2	gamma-Chlordane	1.1	JP
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	94	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01CDL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-10

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 29 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/15/00

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	12	U
319-85-7	beta-BHC	12	U
319-86-8	delta-BHC	12	U
58-89-9	gamma-BHC (Lindane)	12	U
76-44-8	Heptachlor	12	U
309-00-2	Aldrin	0.50	DJP
1024-57-3	Heptachlor epoxide	12	U
959-98-8	Endosulfan I	12	U
60-57-1	Dieldrin	0.17	DJP
72-55-9	4,4'-DDE	1.3	DJP
72-20-8	Endrin	1.8	DJP
33213-65-9	Endosulfan II	23	U
72-54-8	4,4'-DDD	0.55	DJP
1031-07-8	Endosulfan sulfate	1.1	DJP
50-29-3	4,4'-DDT	23	U
72-43-5	Methoxychlor	120	U
53494-70-5	Endrin ketone	23	U
7421-93-4	Endrin aldehyde	4.1	DJ
5103-71-9	alpha-Chlordane	0.72	DJP
5103-74-2	gamma-Chlordane	1.4	DJP
8001-35-2	Toxaphene	1200	U
12674-11-2	Aroclor-1016	230	U
11104-28-2	Aroclor-1221	470	U
11141-16-5	Aroclor-1232	230	U
53469-21-9	Aroclor-1242	230	U
12672-29-6	Aroclor-1248	230	U
11097-69-1	Aroclor-1254	230	U
11096-82-5	Aroclor-1260	230	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01D

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01L

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-11

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 16 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/15/00

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	10	U
319-85-7	beta-BHC	10	U
319-86-8	delta-BHC	10	U
58-89-9	gamma-BHC (Lindane)	10	U
76-44-8	Heptachlor	10	U
309-00-2	Aldrin	18	
1024-57-3	Heptachlor epoxide	9.8	~~JP~~
959-98-8	Endosulfan I	3.6	~~JP~~
60-57-1	Dieldrin	680	EC
72-55-9	4,4'-DDE	300	~~PC~~ J
72-20-8	Endrin	20	U
33213-65-9	Endosulfan II	20	U
72-54-8	4,4'-DDD	3900	EC
1031-07-8	Endosulfan sulfate	49	~~P~~ J
50-29-3	4,4'-DDT	60	~~PY~~ J
72-43-5	Methoxychlor	100	U
53494-70-5	Endrin ketone	6.7	~~JP~~
7421-93-4	Endrin aldehyde	170	
5103-71-9	alpha-Chlordane	110	~~P~~ J
5103-74-2	gamma-Chlordane	10	U
8001-35-2	Toxaphene	1000	U
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	400	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	200	U
11097-69-1	Aroclor-1254	4100	~~PC~~ J
11096-82-5	Aroclor-1260	200	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01DDL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-11

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 16 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/15/00

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	200	U
319-85-7	beta-BHC	200	U
319-86-8	delta-BHC	200	U
58-89-9	gamma-BHC (Lindane)	200	U
76-44-8	Heptachlor	200	U
309-00-2	Aldrin	200	U
1024-57-3	Heptachlor epoxide	200	U
959-98-8	Endosulfan I	200	U
60-57-1	Dieldrin	750	DC
72-55-9	4,4'-DDE	330	DJ~~PC~~
72-20-8	Endrin	390	U
33213-65-9	Endosulfan II	390	U
72-54-8	4,4'-DDD	4100	DC
1031-07-8	Endosulfan sulfate	390	U
50-29-3	4,4'-DDT	390	U
72-43-5	Methoxychlor	2000	U
53494-70-5	Endrin ketone	390	U
7421-93-4	Endrin aldehyde	160	DJ
5103-71-9	alpha-Chlordane	140	DJ~~P~~
5103-74-2	gamma-Chlordane	200	U
8001-35-2	Toxaphene	20000	U
12674-11-2	Aroclor-1016	3900	U
11104-28-2	Aroclor-1221	8000	U
11141-16-5	Aroclor-1232	3900	U
53469-21-9	Aroclor-1242	3900	U
12672-29-6	Aroclor-1248	3900	U
11097-69-1	Aroclor-1254	5700	D~~P~~C J
11096-82-5	Aroclor-1260	3900	U

11/27/00

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01E

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01L

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-12

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 21 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/15/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	0.059	JP
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01F

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-13

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 8 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/15/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	73	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01G

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01L

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-14

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 21 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/15/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01H

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-15

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 18 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/15/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	1.4	JP
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	0.23	JP
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	0.47	JP
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	1.0	JP
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	1.7	JP
7421-93-4	Endrin aldehyde	1.4	JP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01J

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01B-16

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 25 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/15/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	0.61	JP
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	0.88	JP
1024-57-3	Heptachlor epoxide	0.055	JP
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	0.042	JP
72-55-9	4,4'-DDE	0.32	JP
72-20-8	Endrin	0.41	JP
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4'-DDD	4.4	U
1031-07-8	Endosulfan sulfate	0.20	JP
50-29-3	4,4'-DDT	4.4	U
72-43-5	Methoxychlor	1.7	JP
53494-70-5	Endrin ketone	0.19	JP
7421-93-4	Endrin aldehyde	0.28	JP
5103-71-9	alpha-Chlordane	0.25	JP
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	89	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	U

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1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01CMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6757-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 29 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/15/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	16	P J
76-44-8	Heptachlor	11	P J
309-00-2	Aldrin	15	
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	32	
72-55-9	4,4'-DDE	1.9	JP
72-20-8	Endrin	36	
33213-65-9	Endosulfan II	4.6	U
72-54-8	4,4'-DDD	4.6	U
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	37	
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.1	JP
7421-93-4	Endrin aldehyde	6.2	
5103-71-9	alpha-Chlordane	0.76	JP
5103-74-2	gamma-Chlordane	1.9	J
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	94	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U

WJ 11/27/00

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1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01CMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01L

Matrix: (soil/water) SOIL Lab Sample ID: WG6757-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 29 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/15/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	18	~~P~~ J
76-44-8	Heptachlor	14	~~P~~ J
309-00-2	Aldrin	16	
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	36	
72-55-9	4,4'-DDE	1.8	~~JP~~
72-20-8	Endrin	40	
33213-65-9	Endosulfan II	4.6	U
72-54-8	4,4'-DDD	4.6	U
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	38	
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	3.5	~~JP~~
7421-93-4	Endrin aldehyde	4.2	~~JP~~
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	0.82	~~JP~~
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	94	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U

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1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01BMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6767-2

Sample wt/vol: 1.0(g/mL) G Lab File ID: _____

% Moisture: 0 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/15/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	53	U
319-85-7	beta-BHC	71	~~P~~ J
319-86-8	delta-BHC	53	U
58-89-9	gamma-BHC (Lindane)	340	
76-44-8	Heptachlor	360	
309-00-2	Aldrin	380	
1024-57-3	Heptachlor epoxide	53	U
959-98-8	Endosulfan I	53	U
60-57-1	Dieldrin	760	
72-55-9	4,4'-DDE	100	U
72-20-8	Endrin	820	
33213-65-9	Endosulfan II	100	U
72-54-8	4,4'-DDD	100	U
1031-07-8	Endosulfan sulfate	100	U
50-29-3	4,4'-DDT	850	
72-43-5	Methoxychlor	530	U
53494-70-5	Endrin ketone	67	~~JP~~
7421-93-4	Endrin aldehyde	100	U
5103-71-9	alpha-Chlordane	53	U
5103-74-2	gamma-Chlordane	53	U
8001-35-2	Toxaphene	5300	U
12674-11-2	Aroclor-1016	1000	U
11104-28-2	Aroclor-1221	2100	U
11141-16-5	Aroclor-1232	1000	U
53469-21-9	Aroclor-1242	1000	U
12672-29-6	Aroclor-1248	1000	U
11097-69-1	Aroclor-1254	1000	U
11096-82-5	Aroclor-1260	1000	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01BMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01B

Matrix: (soil/water) SOIL Lab Sample ID: WG6767-3

Sample wt/vol: 1.0(g/mL) G Lab File ID: _____

% Moisture: 0 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/15/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	50	U
319-85-7	beta-BHC	70	
319-86-8	delta-BHC	50	U
58-89-9	gamma-BHC (Lindane)	310	
76-44-8	Heptachlor	310	
309-00-2	Aldrin	310	
1024-57-3	Heptachlor epoxide	50	U
959-98-8	Endosulfan I	50	U
60-57-1	Dieldrin	630	
72-55-9	4,4'-DDE	97	U
72-20-8	Endrin	700	
33213-65-9	Endosulfan II	97	U
72-54-8	4,4'-DDD	97	U
1031-07-8	Endosulfan sulfate	97	U
50-29-3	4,4'-DDT	690	
72-43-5	Methoxychlor	500	U
53494-70-5	Endrin ketone	58	JP
7421-93-4	Endrin aldehyde	97	U
5103-71-9	alpha-Chlordane	50	U
5103-74-2	gamma-Chlordane	50	U
8001-35-2	Toxaphene	5000	U
12674-11-2	Aroclor-1016	970	U
11104-28-2	Aroclor-1221	2000	U
11141-16-5	Aroclor-1232	970	U
53469-21-9	Aroclor-1242	970	U
12672-29-6	Aroclor-1248	970	U
11097-69-1	Aroclor-1254	970	U
11096-82-5	Aroclor-1260	970	U

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 11-22-00

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Clark Oil (IL)

CASE NUMBER: 28678 SDG NUMBER: EE01K

Number and Type of Samples: 16 (Soil)

Sample Numbers: EE01K-N, EE01P-T, EE01W-Z, EE020-2

Laboratory: CompuChem Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

Analytical Results (Qualified Data)

Case # 28678 SDG EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE020		EE021		EE022		EE022DL		PBLKSZ	
Sampling Location :	X122		X123		X124		X124			
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000			
Time Sampled :	16:50		16:55		17:10		17:10			
%Moisture :	25		6		15		15		N/A	
pH :	7.7		7.5		7.9		7.9			
Dilution Factor :	1.0		1.0		1.0		10.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2.2	J	1.8	U	2.0	U	20	U	1.7	U
beta-BHC	2.3	U	1.8	U	1.6	J	20	U	1.7	U
delta-BHC	2.0	J	1.8	U	2.0	U	20	U	1.7	U
gamma-BHC (Lindane)	4.0	J	1.8	U	2.0	U	20	U	1.7	U
Heptachlor	2.3	U	1.8	U	2.0	U	20	U	1.7	U
Aldrin	1.0	J	1.8	U	2.0	U	20	U	1.7	U
Heptachlor epoxide	2.3	U	1.8	U	2.0	U	20	U	1.7	U
Endosulfan I	2.3	U	1.8	U	0.52	J	20	U	1.7	U
Dieldrin	1.5	J	3.5	U	19	J	16	J	3.3	U
4,4'-DDE	4.4	U	3.5	U	3.9	U	39	U	3.3	U
Endrin	4.0	J	3.5	U	3.9	U	39	U	3.3	U
Endosulfan II	4.4	U	3.5	U	3.9	U	11	J	3.3	U
4,4'-DDD	1.8	J	3.5	U	3.9	U	39	U	3.3	U
Endosulfan sulfate	4.4	U	3.5	U	25	J	12	J	3.3	U
4,4'-DDT	3.8	J	3.5	U	3.9	U	39	U	3.3	U
Methoxychlor	15	J	18	U	51	J	200	U	17	U
Endrin ketone	3.6	J	3.5	U	84	J	53		3.3	U
Endrin aldehyde	1.7	J	3.5	U	10	J	10	J	3.3	U
alpha-Chlordane	1.6	J	1.8	U	2.0	U	20	U	1.7	U
gamma-Chlordane	1.5	J	1.8	U	2.0	U	20	U	1.7	U
Toxaphene	230	U	180	U	200	U	2000	U	170	U
Aroclor-1016	44	U	35	U	39	U	390	U	33	U
Aroclor-1221	89	U	71	U	79	U	790	U	67	U
Aroclor-1232	44	U	35	U	39	U	390	U	33	U
Aroclor-1242	44	U	35	U	39	U	390	U	33	U
Aroclor-1248	44	U	35	U	39	U	390	U	33	U
Aroclor-1254	44	U	35	U	1600	J	1300	J	33	U
Aroclor-1260	44	U	35	U	39	U	390	U	33	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01Y		EE01YDL		EE01YMS		EE01YMSD		EE01Z	
Sampling Location :	X120		X120		X120		X120		X121	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	15:40		15:40		15:40		15:40		15:50	
%Moisture :	4		4		4		4		27	
pH :	8.3		8.3		8.3		8.3		7.0	
Dilution Factor :	2.0		20.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.87	J	35	U	1.2	J	1.0	J	2.3	U
beta-BHC	18		10	J	1.8	U	1.8	U	2.3	U
delta-BHC	3.5	U	35	U	1.8	U	1.8	U	2.3	U
gamma-BHC (Lindane)	3.1	J	35	U	13	J	11	J	2.3	U
Heptachlor	3.5	U	35	U	11		8.8		2.3	U
Aldrin	15	J	13	J	12		6.4	J	2.3	U
Heptachlor epoxide	29	J	30	J	1.2	J	32	J	2.3	U
Endosulfan I	3.5	U	35	U	1.8	U	1.8	U	2.3	U
Dieldrin	58	J	55	J	30	J	33	J	4.5	U
4,4'-DDE	130	J	130	J	17	J	140	J	4.5	U
Endrin	110	J	64	J	33	J	72	J	4.5	U
Endosulfan II	6.9	U	69	U	3.4	U	3.3	J	4.5	U
4,4'-DDD	13	J	57	J	6.9	J	28	J	4.5	U
Endosulfan sulfate	66	J	39	J	2.4	J	6.9	J	4.5	U
4,4'-DDT	6.9	U	86		35		30	J	4.5	U
Methoxychlor	35	U	280	J	18	U	18	U	23	U
Endrin ketone	150	J	77	J	3.9	J	5.3	J	4.5	U
Endrin aldehyde	52	J	74		9.9		25	J	4.5	U
alpha-Chlordane	150	J	140	J	7.6	J	61	J	2.3	U
gamma-Chlordane	520		430		26		200		2.3	U
Toxaphene	350	U	3500	U	180	U	180	U	230	U
Aroclor-1016	69	U	690	U	34	U	34	U	45	U
Aroclor-1221	140	U	1400	U	70	U	70	U	92	U
Aroclor-1232	69	U	690	U	34	U	34	U	45	U
Aroclor-1242	69	U	690	U	34	U	34	U	45	U
Aroclor-1248	69	U	690	U	34	U	34	U	45	U
Aroclor-1254	69	U	690	U	34	U	34	U	45	U
Aroclor-1260	69	U	690	U	34	U	34	U	45	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01T		EE01TDL		EE01W		EE01WDL		EE01X	
Sampling Location :	X117		X117		X118		X118		X119	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	13:25		13:25		14:20		14:20		14:35	
%Moisture :	19		19		18		18		22	
pH :	6.9		6.9		8.0		8.0		8.4	
Dilution Factor :	1.0		2.0		2.0		20.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2.1	U	4.2	U	67	J	73	J	2.2	U
beta-BHC	14	J	11	J	4.2	R	41	U	2.4	J
delta-BHC	2.1	U	4.2	U	4.2	R	41	U	2.2	U
gamma-BHC (Lindane)	2.1	U	4.2	U	4.2	R	59	J	0.77	J
Heptachlor	2.1	U	4.2	U	140	J	130	J	2.2	U
Aldrin	4.6	J	2.1	J	20	J	41	U	1.2	J
Heptachlor epoxide	11	J	4.2	U	20	J	41	U	2.2	U
Endosulfan I	2.1	U	4.2	U	8.0	J	41	U	2.2	U
Dieldrin	17	J	8.2		40	J	80	U	4.2	U
4,4'-DDE	4.1	U	8.2	U	69	J	85	J	4.2	U
Endrin	12	J	4.3	J	50	J	80	U	3.5	J
Endosulfan II	4.1	U	8.2	U	8.1	R	80	U	4.2	U
4,4'-DDD	14	J	8.2	U	17	J	80	U	1.6	J
Endosulfan sulfate	18	J	7.9	J	8.1	R	80	U	4.2	U
4,4'-DDT	47	J	8.2	U	42	J	80	U	4.2	U
Methoxychlor	21	U	42	U	41	R	410	U	22	U
Endrin ketone	9.6	J	3.9	J	46	J	80	U	4.2	U
Endrin aldehyde	32	J	18	J	8.1	R	80	U	1.8	J
alpha-Chlordane	9.7	J	3.5	J	4.2	R	41	U	2.2	U
gamma-Chlordane	9.9	J	5.0	J	28	J	54		2.2	U
Toxaphene	210	U	420	U	410	R	4100	U	220	U
Aroclor-1016	41	U	81	U	80	R	800	U	42	U
Aroclor-1221	83	U	170	U	160	R	1600	U	86	U
Aroclor-1232	41	U	81	U	80	R	800	U	42	U
Aroclor-1242	41	U	81	U	80	R	800	U	42	U
Aroclor-1248	41	U	81	U	80	R	800	U	42	U
Aroclor-1254	41	U	81	U	80	R	800	U	42	U
Aroclor-1260	41	U	81	U	80	R	800	U	42	U

Analytical Results (Qualified Data)

Case #: 28678 SDG EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date .

Sample Number :	EE01P		EE01Q		EE01QDL		EE01R		EE01S	
Sampling Location :	X113		X114		X114		X115		X116	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	11:05		12:00		12:00		12:15		13:25	
%Moisture :	29		4		4		26		18	
pH :	7.6		7.4		7.4		7.1		7.6	
Dilution Factor :	1.0		2.0		20.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2.4	U	3.5	U	35	U	2.3	U	2.1	U
beta-BHC	2.4	U	3.5	U	35	U	2.3	U	12	J
delta-BHC	2.4	U	4.6	J	35	U	2.3	U	2.1	U
gamma-BHC (Lindane)	2.4	U	3.5	U	35	U	2.3	U	2.1	U
Heptachlor	2.4	U	3.5	U	35	U	2.3	U	2.1	U
Aldrin	2.4	U	3.5	U	35	U	2.3	U	3.8	J
Heptachlor epoxide	2.4	U	1.7	J	10	J	2.3	U	6.1	J
Endosulfan I	2.4	U	3.5	U	35	U	2.3	U	2.1	U
Dieldrin	4.7	U	36	J	69	U	4.5	U	12	J
4,4'-DDE	4.7	U	6.5	J	39	J	4.5	U	4.0	U
Endrin	4.7	U	5.2	J	29	J	4.5	U	23	J
Endosulfan II	4.7	U	4.0	J	69	U	4.5	U	4.0	U
4,4'-DDD	4.7	U	6.9	U	18	J	4.5	U	10	J
Endosulfan sulfate	4.7	U	6.9	U	44	J	4.5	U	13	J
4,4'-DDT	4.7	U	6.9	U	69	U	4.5	U	34	J
Methoxychlor	24	U	35	U	350	U	23	U	21	U
Endrin ketone	4.7	U	140	J	38	J	4.5	U	6.2	J
Endrin aldehyde	4.7	U	86	J	46	J	4.5	U	22	J
alpha-Chlordane	2.4	U	40	J	35	U	2.3	U	6.0	J
gamma-Chlordane	2.4	U	1.8	J	35	U	2.3	U	6.2	J
Toxaphene	240	U	350	U	3500	U	230	U	210	U
Aroclor-1016	46	U	69	U	690	U	45	U	40	U
Aroclor-1221	94	U	140	U	1400	U	91	U	82	U
Aroclor-1232	46	U	69	U	690	U	45	U	40	U
Aroclor-1242	46	U	69	U	690	U	45	U	40	U
Aroclor-1248	46	U	69	U	690	U	45	U	40	U
Aroclor-1254	46	U	69	U	690	U	45	U	40	U
Aroclor-1260	46	U	69	U	690	U	45	U	40	U

Analytical Results (Qualified Data)

Case # 28678 SDG EE01K
Site CLARK OIL
Lab. LIBRTY
Reviewer :
Date

Number of Soil Samples 16
Number of Water Samples 0

Sample Number :	EE01K		EE01L		EE01M		EE01N		EE01NDL	
Sampling Location :	X109		X110		X111		X112		X112	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	08:15		09:25		09:35		10:05		10:05	
%Moisture :	20		20		16		29		29	
pH	5.8		8.5		7.9		7.9		7.9	
Dilution Factor :	1.0		1.0		1.0		1.0		100.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2.1	U	2.1	U	2.0	U	2.4	U	240	U
beta-BHC	2.1	U	2.1	U	2.0	U	610	J	240	U
delta-BHC	2.1	U	2.1	U	2.0	U	190	J	240	U
gamma-BHC (Lindane)	2.1	U	1.9	J	2.0	U	2.4	U	240	U
Heptachlor	2.1	U	2.1	U	2.0	U	2.4	U	63	J
Aldrin	2.1	U	0.82	J	2.0	U	100	J	240	U
Heptachlor epoxide	2.1	U	2.1	U	2.0	U	2.4	U	240	U
Endosulfan I	2.1	U	2.1	U	2.0	U	2.4	U	240	U
Dieldrin	4.1	U	1.8	J	3.9	U	15	J	460	U
4,4'-DDE	4.1	U	3.1	J	3.9	U	4.7	U	460	U
Endrin	4.1	U	1.2	J	3.9	U	23	J	460	U
Endosulfan II	4.1	U	4.1	U	3.9	U	6.8	J	460	U
4,4'-DDD	4.1	U	4.0	J	3.9	U	19	J	460	U
Endosulfan sulfate	4.1	U	1.2	J	3.9	U	4.7	U	460	U
4,4'-DDT	4.1	U	2.8	J	3.9	U	20	J	460	U
Methoxychlor	21	U	1.5	J	20	U	24	U	2400	U
Endrin ketone	4.1	U	4.1	U	3.9	U	9.8	J	460	U
Endrin aldehyde	4.1	U	2.5	J	3.9	U	4.7	U	460	U
alpha-Chlordane	2.1	U	3.0	J	2.0	U	59	J	240	U
gamma-Chlordane	2.1	U	6.8		2.0	U	41	J	240	U
Toxaphene	210	U	210	U	200	U	240	U	24000	U
Aroclor-1016	41	U	41	U	39	U	46	U	4600	U
Aroclor-1221	84	U	84	U	80	U	94	U	9400	U
Aroclor-1232	41	U	41	U	39	U	46	U	4600	U
Aroclor-1242	41	U	41	U	39	U	46	U	4600	U
Aroclor-1248	41	U	41	U	39	U	46	U	4600	U
Aroclor-1254	41	U	41	U	39	U	46	U	4600	U
Aroclor-1260	41	U	41	U	39	U	46	U	4600	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	SBLKTI		SBLKTK		SBLKTT		SBLKUM			
Sampling Location :										
Matrix :	Soil		Soil		Soil		Soil			
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	25000	U	25000	UJ	830	U	25000	R		
4-Nitrophenol	25000	U	25000	UJ	830	U	25000	UJ		
Dibenzofuran	10000	U	10000	U	330	U	10000	U		
2,4-Dinitrotoluene	10000	U	10000	U	330	U	10000	U		
Diethylphthalate	10000	U	10000	U	330	U	10000	U		
Fluorene	10000	U	10000	U	330	U	10000	U		
4-Chlorophenyl-phenyl ether	10000	U	10000	UJ	330	U	10000	U		
4-Nitroaniline	25000	U	25000	U	830	UJ	25000	UJ		
4,6-Dinitro-2-methylphenol	25000	U	25000	U	830	U	25000	UJ		
N-Nitrosodiphenylamine	10000	U	10000	U	330	U	10000	U		
4-Bromophenyl-phenylether	10000	U	10000	U	330	U	10000	U		
Hexachlorobenzene	10000	U	10000	U	330	U	10000	U		
Atrazine	10000	U	10000	U	330	U	10000	U		
Pentachlorophenol	25000	U	25000	U	830	U	25000	U		
Phenanthrene	10000	U	10000	U	330	U	10000	U		
Anthracene	10000	U	10000	U	330	U	10000	U		
Carbazole	10000	U	10000	U	330	UJ	10000	UJ		
Di-n-butylphthalate	10000	U	10000	U	330	U	10000	U		
Fluoranthene	10000	U	10000	U	330	U	10000	U		
Pyrene	10000	U	10000	U	330	U	10000	U		
Butylbenzylphthalate	10000	U	10000	U	330	U	10000	U		
3,3'-Dichlorobenzidine	10000	U	10000	UJ	330	U	10000	U		
Benzo(a)anthracene	10000	U	10000	U	330	U	10000	U		
Chrysene	10000	U	10000	U	330	U	10000	U		
bis(2-Ethylhexyl)phthalate	10000	U	10000	U	330	U	10000	U		
Di-n-octylphthalate	10000	U	10000	U	330	U	10000	U		
Benzo(b)fluoranthene	10000	U	10000	U	330	U	10000	U		
Benzo(k)fluoranthene	10000	U	10000	UJ	330	U	10000	U		
Benzo(a)pyrene	10000	U	10000	U	330	U	10000	U		
Indeno(1,2,3-cd)pyrene	10000	U	10000	U	330	U	10000	U		
Dibenzo(a,h)anthracene	10000	U	10000	U	330	U	10000	U		
Benzo(g,h,i)perylene	10000	U	10000	U	330	U	10000	U		

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	SBLKTI		SBLKTK		SBLKTT		SBLKUM			
Sampling Location :										
Matrix :	Soil		Soil		Soil		Soil			
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	10000	U	10000	U	330	U	10000	U		
Phenol	10000	U	10000	U	330	U	10000	U		
bis-(2-Chloroethyl) ether	10000	U	10000	U	330	U	10000	U		
2-Chlorophenol	10000	U	10000	U	330	U	10000	U		
2-Methylphenol	10000	U	10000	U	330	U	10000	U		
2,2'-oxybis(1-Chloropropane)	10000	U	10000	U	330	U	10000	U		
Acetophenone	10000	U	10000	U	330	U	10000	U		
4-Methylphenol	10000	U	10000	U	330	U	10000	U		
N-Nitroso-di-n-propylamine	10000	U	10000	U	330	U	10000	U		
Hexachloroethane	10000	U	10000	U	330	U	10000	U		
Nitrobenzene	10000	U	10000	UJ	330	U	10000	U		
Isophorone	10000	U	10000	U	330	U	10000	U		
2-Nitrophenol	10000	U	10000	U	330	U	10000	U		
2,4-Dimethylphenol	10000	U	10000	U	330	U	10000	U		
bis(2-Chloroethoxy)methane	10000	U	10000	U	330	U	10000	U		
2,4-Dichlorophenol	10000	U	10000	U	330	U	10000	U		
Naphthalene	10000	U	10000	U	330	U	10000	U		
4-Chloroaniline	10000	U	10000	U	330	U	10000	U		
Hexachlorobutadiene	10000	U	10000	UJ	330	U	10000	U		
Caprolactam	10000	U	10000	U	330	U	10000	U		
4-Chloro-3-methylphenol	10000	U	10000	U	330	U	10000	U		
2-Methylnaphthalene	10000	U	10000	U	330	U	10000	U		
Hexachlorocyclopentadiene	10000	U	10000	UJ	330	U	10000	U		
2,4,6-Trichlorophenol	10000	U	10000	U	330	U	10000	U		
2,4,5-Trichlorophenol	25000	U	25000	U	830	U	25000	U		
1,1'-Biphenyl	10000	U	10000	U	330	U	10000	U		
2-Chloronaphthalene	10000	U	10000	U	330	U	10000	U		
2-Nitroaniline	25000	U	25000	U	830	U	25000	U		
Dimethylphthalate	10000	U	10000	U	330	U	10000	U		
2,6-Dinitrotoluene	10000	U	10000	U	330	U	10000	U		
Acenaphthylene	10000	U	10000	U	330	U	10000	U		
3-Nitroaniline	25000	U	25000	U	830	U	25000	U		
Acenaphthene	10000	U	10000	U	330	U	10000	U		

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01Z		EE020		EE021		EE022		SBLKSY	
Sampling Location :	X121		X122		X123		X124			
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000			
Time Sampled :	15:50		16:50		16:55		17:10			
%Moisture :	27		25		6		15		N/A	
pH :	7.0		7.7		7.5		7.9			
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1100	U	1100	U	880	U	980	U	830	U
4-Nitrophenol	1100	U	1100	U	880	U	980	U	830	U
Dibenzofuran	450	U	440	U	350	U	390	U	330	U
2,4-Dinitrotoluene	450	U	440	U	350	U	390	U	330	U
Diethylphthalate	450	U	440	U	350	U	390	U	330	U
Fluorene	450	U	440	U	350	U	390	U	330	U
4-Chlorophenyl-phenyl ether	450	U	440	U	350	U	390	U	330	U
4-Nitroaniline	1100	U	1100	UJ	880	U	980	U	830	U
4,6-Dinitro-2-methylphenol	1100	U	1100	U	880	U	980	U	830	U
N-Nitrosodiphenylamine	450	U	440	U	350	U	390	U	330	U
4-Bromophenyl-phenylether	450	U	440	U	350	U	390	U	330	U
Hexachlorobenzene	450	U	440	U	350	U	390	U	330	U
Atrazine	450	U	440	U	350	U	390	U	330	U
Pentachlorophenol	1100	U	1100	U	880	U	980	U	830	U
Phenanthrene	450	U	440	U	350	U	160	J	330	U
Anthracene	450	U	440	U	350	U	70	J	330	U
Carbazole	450	U	440	UJ	350	U	43	J	330	U
Di-n-butylphthalate	450	U	440	U	350	U	390	U	330	U
Fluoranthene	450	U	440	U	350	U	220	J	330	U
Pyrene	450	U	110	J	350	U	230	J	330	U
Butylbenzylphthalate	450	U	440	U	350	U	390	U	330	U
3,3'-Dichlorobenzidine	450	U	440	U	350	U	390	U	330	U
Benzo(a)anthracene	450	U	440	U	350	U	160	J	330	U
Chrysene	450	U	74	J	350	U	190	J	330	U
bis(2-Ethylhexyl)phthalate	450	U	45	J	73	J	69	J	330	U
Di-n-octylphthalate	450	U	440	U	350	U	390	U	330	U
Benzo(b)fluoranthene	450	U	440	U	350	U	130	J	330	U
Benzo(k)fluoranthene	450	U	440	U	350	U	120	J	330	U
Benzo(a)pyrene	450	U	440	U	350	U	100	J	330	U
Indeno(1,2,3-cd)pyrene	450	U	440	U	350	U	86	J	330	U
Dibenzo(a,h)anthracene	450	U	440	U	350	U	56	J	330	U
Benzo(g,h,i)perylene	450	U	440	U	350	U	190	J	330	U

Case # 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01Z		EE020		EE021		EE022		SBLKSY	
Sampling Location :	X121		X122		X123		X124			
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000			
Time Sampled :	15:50		16:50		16:55		17:10			
%Moisture :	27		25		6		15		N/A	
pH :	7.0		7.7		7.5		7.9			
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	450	U	440	U	350	U	390	U	330	U
Phenol	450	U	440	U	350	U	100	J	330	U
bis-(2-Chloroethyl) ether	450	U	440	U	350	U	390	U	330	U
2-Chlorophenol	450	U	440	U	350	U	390	U	330	U
2-Methylphenol	450	U	440	U	350	U	58	J	330	U
2,2'-oxybis(1-Chloropropane)	450	U	440	U	350	U	390	U	330	U
Acetophenone	450	U	440	U	350	U	390	U	330	U
4-Methylphenol	450	U	440	U	350	U	110	J	330	U
N-Nitroso-di-n-propylamine	450	U	440	U	350	U	390	U	330	U
Hexachloroethane	450	U	440	U	350	U	390	U	330	U
Nitrobenzene	450	U	440	U	350	U	390	U	330	U
Isophorone	450	U	440	U	350	U	390	U	330	U
2-Nitrophenol	450	U	440	U	350	U	390	U	330	U
2,4-Dimethylphenol	450	U	440	U	350	U	390	U	330	U
bis(2-Chloroethoxy)methane	450	U	440	U	350	U	390	U	330	U
2,4-Dichlorophenol	450	U	440	U	350	U	390	U	330	U
Naphthalene	450	U	440	U	350	U	180	J	330	U
4-Chloroaniline	450	U	440	U	350	U	390	U	330	U
Hexachlorobutadiene	450	U	440	U	350	U	390	U	330	U
Caprolactam	450	U	440	U	350	U	390	U	330	U
4-Chloro-3-methylphenol	450	U	440	U	350	U	390	U	330	U
2-Methylnaphthalene	450	U	440	U	350	U	650		330	U
Hexachlorocyclopentadiene	450	UJ	440	U	350	UJ	390	UJ	330	U
2,4,6-Trichlorophenol	450	U	440	U	350	U	390	U	330	U
2,4,5-Trichlorophenol	1100	U	1100	U	880	U	980	U	830	U
1,1'-Biphenyl	450	U	440	U	350	U	390	U	330	U
2-Chloronaphthalene	450	U	440	U	350	U	390	U	330	U
2-Nitroaniline	1100	U	1100	U	880	U	980	U	830	U
Dimethylphthalate	450	U	440	U	350	U	390	U	330	U
2,6-Dinitrotoluene	450	U	440	U	350	U	390	U	330	U
Acenaphthylene	450	U	440	U	350	U	390	U	330	U
3-Nitroaniline	1100	U	1100	U	880	U	980	U	830	U
Acenaphthene	450	U	440	U	350	U	390	U	330	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01X		EE01XDL		EE01Y		EE01YMS		EE01YMSD	
Sampling Location :	X119		X119		X120		X120		X120	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	14:35		14:35		15:40		15:40		15:40	
%Moisture :	22		22		4		4		4	
pH	8.4		8.4		8.3		8.3		8.3	
Dilution Factor :	1.0		5.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1100	U	5300	UJ	860	U	860	U	860	U
4-Nitrophenol	1100	U	5300	U	860	U	1100		1600	
Dibenzofuran	420	U	2100	U	340	U	340	U	340	U
2,4-Dinitrotoluene	420	U	2100	U	340	U	960		740	
Diethylphthalate	420	U	2100	U	340	U	340	U	340	U
Fluorene	83	J	2100	U	420		520		310	J
4-Chlorophenyl-phenyl ether	420	U	2100	U	340	U	340	U	340	U
4-Nitroaniline	1100	UJ	5300	UJ	860	UJ	860	UJ	860	UJ
4,6-Dinitro-2-methylphenol	1100	U	5300	U	860	U	860	U	860	U
N-Nitrosodiphenylamine	420	U	2100	U	340	U	340	U	340	U
4-Bromophenyl-phenylether	420	U	2100	U	340	U	340	U	340	U
Hexachlorobenzene	420	U	2100	U	340	U	340	U	340	U
Atrazine	420	U	2100	U	340	U	340	U	340	U
Pentachlorophenol	1100	U	5300	U	860	U	980		1100	
Phenanthrene	190	J	250	J	1200		1900		1000	
Anthracene	420	U	2100	U	110	J	150	J	95	J
Carbazole	420	UJ	2100	UJ	340	UJ	340	UJ	340	UJ
Di-n-butylphthalate	420	U	2100	U	340	U	340	U	340	U
Fluoranthene	220	J	300	J	160	J	200	J	110	J
Pyrene	990		1200	J	1100		2000		1600	
Butylbenzylphthalate	420	U	2100	U	340	U	340	U	340	U
3,3'-Dichlorobenzidine	420	U	2100	U	340	U	340	U	340	U
Benzo(a)anthracene	310	J	390	J	340	J	440		210	J
Chrysene	550		690	J	760		920		430	
bis(2-Ethylhexyl)phthalate	10000		14000		160	J	85	J	48	J
Di-n-octylphthalate	420	U	2100	U	340	U	340	U	340	U
Benzo(b)fluoranthene	110	J	2100	U	230	J	230	J	120	J
Benzo(k)fluoranthene	97	J	2100	U	210	J	210	J	110	J
Benzo(a)pyrene	120	J	2100	U	330	J	330	J	170	J
Indeno(1,2,3-cd)pyrene	420	U	2100	U	100	J	80	J	58	J
Dibenzo(a,h)anthracene	51	J	2100	U	91	J	99	J	54	J
Benzo(g,h,i)perylene	52	J	2100	U	220	J	190	J	120	J

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01X		EE01XDL		EE01Y		EE01YMS		EE01YMSD	
Sampling Location :	X119		X119		X120		X120		X120	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	14:35		14:35		15:40		15:40		15.40	
%Moisture	22		22		4		4		4	
pH :	8.4		8.4		8.3		8.3		8.3	
Dilution Factor :	1.0		5.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	420	U	2100	U	340	U	340	U	340	U
Phenol	420	U	2100	U	84	J	1600		1200	
bis-(2-Chloroethyl) ether	420	U	2100	U	340	U	340	U	340	U
2-Chlorophenol	420	U	2100	U	340	U	1600		1200	
2-Methylphenol	420	U	2100	U	52	J	340	U	340	U
2,2'-oxybis(1-Chloropropane)	420	U	2100	U	340	U	340	U	340	U
Acetophenone	420	U	2100	U	340	U	340	U	340	U
4-Methylphenol	46	J	2100	U	120	J	150	J	60	J
N-Nitroso-di-n-propylamine	420	U	2100	U	340	U	1100		790	
Hexachloroethane	420	U	2100	U	340	U	340	U	340	U
Nitrobenzene	420	U	2100	U	340	U	340	U	340	U
Isophorone	420	U	2100	U	340	U	340	U	340	U
2-Nitrophenol	420	U	2100	U	340	U	340	U	340	U
2,4-Dimethylphenol	420	U	2100	U	340	U	340	U	340	U
bis(2-Chloroethoxy)methane	420	U	2100	U	340	U	340	U	340	U
2,4-Dichlorophenol	420	U	2100	U	340	U	340	U	340	U
Naphthalene	420	U	2100	U	450		680		320	J
4-Chloroaniline	420	U	2100	U	340	U	340	U	340	U
Hexachlorobutadiene	420	U	2100	U	340	U	340	U	340	U
Caprolactam	420	U	2100	U	340	U	340	U	340	U
4-Chloro-3-methylphenol	420	U	2100	U	340	U	1700		1200	
2-Methylnaphthalene	89	J	2100	U	1900		2900		1500	
Hexachlorocyclopentadiene	420	U	2100	UJ	340	U	340	U	340	U
2,4,6-Trichlorophenol	420	U	2100	U	340	U	340	U	340	U
2,4,5-Trichlorophenol	1100	U	5300	U	860	U	860	U	860	U
1,1'-Biphenyl	420	U	2100	U	340	U	340	U	340	U
2-Chloronaphthalene	420	U	2100	U	340	U	340	U	340	U
2-Nitroaniline	1100	U	5300	U	860	U	860	U	860	U
Dimethylphthalate	420	U	2100	U	340	U	340	U	340	U
2,6-Dinitrotoluene	420	U	2100	U	340	U	340	U	340	U
Acenaphthylene	420	U	2100	U	340	U	340	U	340	U
3-Nitroaniline	1100	U	5300	U	860	U	860	U	860	U
Acenaphthene	420	U	2100	U	120	J	1500		860	

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01S		EE01SDL		EE01T		EE01W		EE01WDL	
Sampling Location :	X116		X116		X117		X118		X118	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	13:25		13:25		13:25		14:20		14:20	
%Moisture :	18		18		19		18		18	
pH :	7.6		7.6		6.9		8.0		8.0	
Dilution Factor :	1.0		5.0		2.0		1.0		2.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1000	U	5100	U	2000	U	30000	U	61000	U
4-Nitrophenol	1000	U	5100	U	2000	U	30000	U	61000	U
Dibenzofuran	420		310	J	120	J	12000	U	24000	U
2,4-Dinitrotoluene	400	U	2000	U	810	U	12000	U	24000	U
Diethylphthalate	400	U	2000	U	810	U	12000	U	24000	U
Fluorene	280	J	240	J	85	J	22000		12000	J
4-Chlorophenyl-phenyl ether	400	U	2000	U	810	U	12000	U	24000	U
4-Nitroaniline	1000	U	5100	U	2000	U	30000	U	61000	U
4,6-Dinitro-2-methylphenol	1000	U	5100	U	2000	U	30000	U	61000	U
N-Nitrosodiphenylamine	400	U	2000	U	810	U	12000	U	24000	U
4-Bromophenyl-phenylether	400	U	2000	U	810	U	12000	U	24000	U
Hexachlorobenzene	400	U	2000	U	810	U	12000	U	24000	U
Atrazine	400	U	2000	U	810	U	12000	U	24000	U
Pentachlorophenol	1000	U	5100	U	2000	U	30000	U	61000	U
Phenanthrene	780		570	J	300	J	35000		20000	J
Anthracene	210	J	2000	U	110	J	9300	J	5200	J
Carbazole	75	J	2000	U	810	U	4000	J	2500	J
Di-n-butylphthalate	400	U	2000	U	810	U	12000	U	24000	U
Fluoranthene	78	J	2000	U	810	U	2100	J	24000	U
Pyrene	300	J	240	J	200	J	8000	J	4600	J
Butylbenzylphthalate	400	U	2000	U	810	U	12000	U	24000	U
3,3'-Dichlorobenzidine	400	U	2000	U	810	U	12000	U	24000	U
Benzo(a)anthracene	260	J	2000	U	160	J	6300	J	3600	J
Chrysene	400		350	J	280	J	7300	J	4400	J
bis(2-Ethylhexyl)phthalate	74	J	2000	U	810	U	12000	U	24000	U
Di-n-octylphthalate	400	U	2000	U	810	U	12000	U	24000	U
Benzo(b)fluoranthene	240	J	2000	U	130	J	2900	J	24000	U
Benzo(k)fluoranthene	220	J	2000	U	140	J	3100	J	24000	U
Benzo(a)pyrene	330	J	280	J	190	J	6600	J	3800	J
Indeno(1,2,3-cd)pyrene	140	J	2000	U	87	J	2400	J	24000	U
Dibenzo(a,h)anthracene	180	J	2000	U	110	J	4100	J	3200	J
Benzo(g,h,i)perylene	640		460	J	380	J	3800	J	24000	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01S		EE01SDL		EE01T		EE01W		EE01WDL	
Sampling Location :	X116		X116		X117		X118		X118	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	13:25		13:25		13:25		14:20		14:20	
%Moisture :	18		18		19		18		18	
pH :	7.6		7.6		6.9		8.0		8.0	
Dilution Factor :	1.0		5.0		2.0		1.0		2.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	400	U	2000	U	810	U	12000	U	24000	U
Phenol	2000		1500	J	450	J	130000		83000	
bis-(2-Chloroethyl) ether	400	U	2000	U	810	U	12000	U	24000	U
2-Chlorophenol	400	U	2000	U	810	U	12000	U	24000	U
2-Methylphenol	800		620	J	260	J	4100	J	24000	U
2,2'-oxybis(1-Chloropropane)	400	U	2000	U	810	U	12000	U	24000	U
Acetophenone	400	U	2000	U	810	U	12000	U	24000	U
4-Methylphenol	1600		1300	J	460	J	51000		32000	
N-Nitroso-di-n-propylamine	400	U	2000	U	810	U	12000	U	24000	U
Hexachloroethane	400	U	2000	U	810	U	12000	U	24000	U
Nitrobenzene	400	U	2000	U	810	U	12000	U	24000	U
Isophorone	400	U	2000	U	810	U	12000	U	24000	U
2-Nitrophenol	400	U	2000	U	810	U	12000	U	24000	U
2,4-Dimethylphenol	380	J	320	J	130	J	12000	U	24000	U
bis(2-Chloroethoxy)methane	400	U	2000	U	810	U	12000	U	24000	U
2,4-Dichlorophenol	400	U	2000	U	810	U	12000	U	24000	U
Naphthalene	2200		1900	J	960		19000		12000	J
4-Chloroaniline	400	U	2000	U	810	U	12000	U	24000	U
Hexachlorobutadiene	400	U	2000	U	810	U	12000	U	24000	U
Caprolactam	400	U	2000	U	810	U	12000	U	24000	U
4-Chloro-3-methylphenol	400	U	2000	U	810	U	12000	U	24000	U
2-Methylnaphthalene	10000		8400		2800		100000		63000	
Hexachlorocyclopentadiene	400	U	2000	UJ	810	UJ	12000	U	24000	U
2,4,6-Trichlorophenol	400	U	2000	U	810	U	12000	U	24000	U
2,4,5-Trichlorophenol	1000	U	5100	U	2000	U	30000	U	61000	U
1,1'-Biphenyl	200	J	2000	U	110	J	5100	J	4300	J
2-Chloronaphthalene	400	U	2000	U	810	U	12000	U	24000	U
2-Nitroaniline	1000	U	5100	U	2000	U	30000	U	61000	U
Dimethylphthalate	400	U	2000	U	810	U	12000	U	24000	U
2,6-Dinitrotoluene	400	U	2000	U	810	U	12000	U	24000	U
Acenaphthylene	400	U	2000	U	810	U	12000	U	24000	U
3-Nitroaniline	1000	U	5100	U	2000	U	30000	U	61000	U
Acenaphthene	140	J	2000	U	810	U	10000	J	7100	J

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01NMS		EE01NMSD		EE01P		EE01Q		EE01R	
Sampling Location :	X112		X112		X113		X114		X115	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	10:05		10:05		11:05		12:00		12:15	
%Moisture :	29		29		29		4		26	
pH :	7.9		7.9		7.6		7.4		7.1	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	35000	R	35000	R	1200	U	78000	UJ	1100	U
4-Nitrophenol	43000	J	60000	J	1200	U	78000	UJ	1100	U
Dibenzofuran	14000	U	14000	U	460	U	31000	U	450	U
2,4-Dinitrotoluene	28000		28000		460	U	31000	U	450	U
Diethylphthalate	14000	U	14000	U	460	U	31000	U	450	U
Fluorene	14000	U	3000	J	460	U	5500	J	450	U
4-Chlorophenyl-phenyl ether	14000	U	14000	U	460	U	31000	UJ	450	U
4-Nitroaniline	35000	UJ	35000	UJ	1200	U	78000	U	1100	UJ
4,6-Dinitro-2-methylphenol	35000	UJ	35000	UJ	1200	U	78000	U	1100	U
N-Nitrosodiphenylamine	14000	U	14000	U	460	U	31000	U	450	U
4-Bromophenyl-phenylether	14000	U	14000	U	460	U	31000	U	450	U
Hexachlorobenzene	14000	U	14000	U	460	U	31000	U	450	U
Atrazine	14000	U	14000	U	460	U	31000	U	450	U
Pentachlorophenol	1300	J	4400	J	1200	U	78000	U	1100	U
Phenanthrene	12000	J	7500	J	460	U	29000	J	450	U
Anthracene	3000	J	1700	J	460	U	31000	U	450	U
Carbazole	2000	J	14000	UJ	460	U	31000	U	450	UJ
Di-n-butylphthalate	14000	U	14000	U	460	U	31000	U	450	U
Fluoranthene	14000	U	14000	U	460	U	31000	U	450	U
Pyrene	40000		37000		460	U	150000		450	U
Butylbenzylphthalate	860	J	14000	U	460	U	31000	U	450	U
3,3'-Dichlorobenzidine	14000	U	14000	U	460	U	31000	UJ	450	U
Benzo(a)anthracene	3400	J	1800	J	460	U	60000		450	U
Chrysene	5300	J	2900	J	460	U	120000		450	U
bis(2-Ethylhexyl)phthalate	7500	J	4200	J	460	U	31000	U	450	U
Di-n-octylphthalate	14000	U	14000	U	460	U	31000	U	450	U
Benzo(b)fluoranthene	1400	J	840	J	460	U	16000	J	450	U
Benzo(k)fluoranthene	1500	J	880	J	460	U	31000	UJ	450	U
Benzo(a)pyrene	2800	J	1500	J	460	U	31000		450	U
Indeno(1,2,3-cd)pyrene	850	J	800	J	460	U	7500	J	450	U
Dibenzo(a,h)anthracene	1300	J	710	J	460	U	8400	J	450	U
Benzo(g,h,i)perylene	2300	J	1400	J	460	U	18000	J	450	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01NMS		EE01NMSD		EE01P		EE01Q		EE01R	
Sampling Location :	X112		X112		X113		X114		X115	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	10:05		10:05		11:05		12:00		12:15	
%Moisture :	29		29		29		4		26	
pH :	7.9		7.9		7.6		7.4		7.1	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	14000	U	14000	U	460	U	31000	U	450	U
Phenol	84000		55000		460	U	31000	U	450	U
bis-(2-Chloroethyl) ether	14000	U	14000	U	460	U	31000	U	450	U
2-Chlorophenol	47000		39000		460	U	31000	U	450	U
2-Methylphenol	9400	J	4600	J	460	U	31000	U	450	U
2,2'-oxybis(1-Chloropropane)	14000	U	14000	U	460	U	31000	U	450	U
Acetophenone	14000	U	14000	U	460	U	31000	U	450	U
4-Methylphenol	27000		13000	J	460	U	31000	U	450	U
N-Nitroso-di-n-propylamine	29000		28000		460	U	31000	U	450	U
Hexachloroethane	14000	U	14000	U	460	U	31000	U	450	U
Nitrobenzene	14000	U	14000	U	460	U	31000	UJ	450	U
Isophorone	14000	U	14000	U	460	U	31000	U	450	U
2-Nitrophenol	14000	U	14000	U	460	U	31000	U	450	U
2,4-Dimethylphenol	14000	U	14000	U	460	U	31000	U	450	U
bis(2-Chloroethoxy)methane	14000	U	14000	U	460	U	31000	U	450	U
2,4-Dichlorophenol	14000	U	14000	U	460	U	31000	U	450	U
Naphthalene	11000	J	5000	J	460	U	31000	U	450	U
4-Chloroaniline	14000	U	14000	U	460	U	31000	U	450	U
Hexachlorobutadiene	14000	U	14000	U	460	U	31000	UJ	450	U
Caprolactam	14000	U	14000	U	460	U	31000	U	450	U
4-Chloro-3-methylphenol	42000		40000		460	U	31000	U	450	U
2-Methylnaphthalene	45000		24000		460	U	7000	J	50	J
Hexachlorocyclopentadiene	14000	U	14000	U	460	U	31000	UJ	450	U
2,4,6-Trichlorophenol	14000	U	14000	U	460	U	31000	U	450	U
2,4,5-Trichlorophenol	35000	U	35000	U	1200	U	78000	U	1100	U
1,1'-Biphenyl	2700	J	1600	J	460	U	31000	U	450	U
2-Chloronaphthalene	14000	U	14000	U	460	U	31000	U	450	U
2-Nitroaniline	35000	U	35000	U	1200	U	78000	U	1100	U
Dimethylphthalate	14000	U	14000	U	460	U	31000	U	450	U
2,6-Dinitrotoluene	14000	U	14000	U	460	U	31000	U	450	U
Acenaphthylene	14000	U	14000	U	460	U	31000	U	450	U
3-Nitroaniline	35000	U	35000	U	1200	U	78000	U	1100	U
Acenaphthene	34000		31000		460	U	31000	U	450	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01K		EE01L		EE01LDL		EE01M		EE01N	
Sampling Location :	X109		X110		X110		X111		X112	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	08:15		09:25		09:25		09:35		10:05	
%Moisture :	20		20		20		16		29	
pH :	5.8		8.5		8.5		7.9		7.9	
Dilution Factor :	1.0		1.0		2.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1000	U	1000	U	2100	U	990	U	35000	U
4-Nitrophenol	1000	U	1000	U	2100	U	990	U	35000	U
Dibenzofuran	410	U	410	U	830	U	390	U	14000	U
2,4-Dinitrotoluene	410	U	410	U	830	U	390	U	14000	U
Diethylphthalate	410	U	410	U	830	U	390	U	14000	U
Fluorene	410	U	100	J	130	J	390	U	10000	J
4-Chlorophenyl-phenyl ether	410	U	410	U	830	U	390	U	14000	U
4-Nitroaniline	1000	U	1000	UJ	2100	UJ	990	U	35000	U
4,6-Dinitro-2-methylphenol	1000	U	1000	U	2100	U	990	U	35000	U
N-Nitrosodiphenylamine	410	U	410	U	830	U	390	U	14000	U
4-Bromophenyl-phenylether	410	U	410	U	830	U	390	U	14000	U
Hexachlorobenzene	410	U	410	U	830	U	390	U	14000	U
Atrazine	410	U	410	U	830	U	390	U	14000	U
Pentachlorophenol	1000	U	1000	U	2100	U	990	U	35000	R
Phenanthrene	410	U	280	J	340	J	390	U	24000	
Anthracene	410	U	200	J	240	J	390	U	5300	J
Carbazole	410	U	410	UJ	830	UJ	390	U	14000	U
Di-n-butylphthalate	410	U	410	U	830	U	390	U	14000	U
Fluoranthene	410	U	410	U	830	U	390	U	3200	J
Pyrene	410	U	2000		2600		390	U	13000	J
Butylbenzylphthalate	410	U	410	U	830	U	390	U	14000	U
3,3'-Dichlorobenzidine	410	U	410	U	830	U	390	U	14000	U
Benzo(a)anthracene	410	U	410	J	410	J	390	U	7000	J
Chrysene	410	U	920		1200		390	U	9800	J
bis(2-Ethylhexyl)phthalate	410	U	3500		4300		390	U	11000	J
Di-n-octylphthalate	410	U	410	U	830	U	390	U	14000	U
Benzo(b)fluoranthene	410	U	180	J	220	J	390	U	2800	J
Benzo(k)fluoranthene	410	U	160	J	340	J	390	U	2900	J
Benzo(a)pyrene	410	U	330	J	390	J	390	U	5700	J
Indeno(1,2,3-cd)pyrene	410	U	55	J	130	J	390	U	2000	J
Dibenzo(a,h)anthracene	410	U	410	U	830	U	390	U	3000	J
Benzo(g,h,i)perylene	410	U	170	J	320	J	390	U	3100	J

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Number of Soil Samples 16
Number of Water Samples : 0

Sample Number :	EE01K		EE01L		EE01LDL		EE01M		EE01N	
Sampling Location :	X109		X110		X110		X111		X112	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	08:15		09:25		09:25		09:35		10:05	
%Moisture :	20		20		20		16		29	
pH :	5.8		8.5		8.5		7.9		7.9	
Dilution Factor :	1.0		1.0		2.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	410	U	410	U	830	U	390	U	14000	U
Phenol	410	U	410	U	830	U	390	U	80000	J
bis-(2-Chloroethyl) ether	410	U	410	U	830	U	390	U	14000	U
2-Chlorophenol	410	U	410	U	830	U	390	U	14000	U
2-Methylphenol	410	U	410	U	830	U	390	U	2300	J
2,2'-oxybis(1-Chloropropane)	410	U	410	U	830	U	390	U	14000	U
Acetophenone	410	U	410	U	830	U	390	U	14000	U
4-Methylphenol	410	U	410	U	830	U	390	U	30000	
N-Nitroso-di-n-propylamine	410	U	410	U	830	U	390	U	14000	UJ
Hexachloroethane	410	U	410	U	830	U	390	U	14000	U
Nitrobenzene	410	U	410	U	830	U	390	U	14000	U
Isophorone	410	U	410	U	830	U	390	U	14000	U
2-Nitrophenol	410	U	410	U	830	U	390	U	14000	U
2,4-Dimethylphenol	410	U	410	U	830	U	390	U	2900	J
bis(2-Chloroethoxy)methane	410	U	410	U	830	U	390	U	14000	U
2,4-Dichlorophenol	410	U	410	U	830	U	390	U	14000	U
Naphthalene	410	U	410	U	830	U	390	U	21000	
4-Chloroaniline	410	U	410	U	830	U	390	U	14000	U
Hexachlorobutadiene	410	U	410	U	830	U	390	U	14000	U
Caprolactam	410	U	410	U	830	U	390	U	14000	U
4-Chloro-3-methylphenol	410	U	410	U	830	U	390	U	14000	U
2-Methylnaphthalene	410	U	73	J	830	U	390	U	94000	
Hexachlorocyclopentadiene	410	U	410	U	830	U	390	U	14000	U
2,4,6-Trichlorophenol	410	U	410	U	830	U	390	U	14000	U
2,4,5-Trichlorophenol	1000	U	1000	U	2100	U	990	U	35000	U
1,1'-Biphenyl	410	U	410	U	830	U	390	U	5500	J
2-Chloronaphthalene	410	U	410	U	830	U	390	U	14000	U
2-Nitroaniline	1000	U	1000	U	2100	U	990	U	35000	U
Dimethylphthalate	410	U	410	U	830	U	390	U	14000	U
2,6-Dinitrotoluene	410	U	410	U	830	U	390	U	14000	U
Acenaphthylene	410	U	410	U	830	U	390	U	14000	U
3-Nitroaniline	1000	U	1000	U	2100	U	990	U	35000	U
Acenaphthene	410	U	200	J	210	J	390	U	6500	J

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	VHBLKTT		VBLKSX							
Sampling Location :										
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A							
pH :										
Dilution Factor :	1.0		1.0							
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10	UJ	2	J						
Dibromochloromethane	10	U	10	U						
1,2-Dibromoethane	10	U	10	U						
Chlorobenzene	10	U	10	U						
Ethylbenzene	10	U	10	U						
Xylenes (total)	10	U	10	U						
Styrene	10	U	10	U						
Bromoform	10	U	10	U						
Isopropylbenzene	10	U	10	U						
1,1,2,2-Tetrachloroethane	10	U	10	U						
1,3-Dichlorobenzene	10	U	10	U						
1,4-Dichlorobenzene	10	U	10	U						
1,2-Dichlorobenzene	10	U	10	U						
1,2-Dibromo-3-chloropropane	10	U	1	J						
1,2,4-Trichlorobenzene	10	U	2	J						

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	VHBLKTT		VBLKSX							
Sampling Location :										
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A							
pH :										
Dilution Factor :	1.0		1.0							
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10	UJ	10	UJ						
Chloromethane	10	U	10	U						
Vinyl Chloride	10	U	10	U						
Bromomethane	10	U	10	U						
Chloroethane	10	U	10	U						
Trichlorofluoromethane	10	UJ	10	UJ						
1,1-Dichloroethene	10	U	10	U						
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	U						
Acetone	10	UJ	2	J						
Carbon Disulfide	10	U	10	U						
Methyl Acetate	10	U	10	U						
Methylene Chloride	10	U	10	U						
trans-1,2-Dichloroethene	10	U	10	U						
Methyl tert-Butyl Ether	10	U	10	U						
1,1-Dichloroethane	10	U	10	U						
cis-1,2-Dichloroethene	10	U	10	U						
2-Butanone	10	UJ	10	UJ						
Chloroform	10	U	10	U						
1,1,1-Trichloroethane	10	U	10	U						
Cyclohexane	10	U	10	U						
Carbon Tetrachloride	10	U	10	U						
Benzene	10	U	10	U						
1,2-Dichloroethane	10	U	10	U						
Trichloroethene	10	U	10	U						
Methylcyclohexane	10	U	10	U						
1,2-Dichloropropane	10	U	10	U						
Bromodichloromethane	10	U	10	U						
cis-1,3-Dichloropropene	10	U	10	U						
4-Methyl-2-pentanone	10	U	10	U						
Toluene	10	U	10	U						
trans-1,3-Dichloropropene	10	U	10	U						
1,1,2-Trichloroethane	10	U	10	U						
Tetrachloroethene	10	U	10	U						

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	VBLKRP		VBLKRS		VBLKRT		VBLKSJ			
Sampling Location :										
Matrix :	Soil		Soil		Soil		Soil			
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10	U	10	UJ	10	U	230	J		
Dibromochloromethane	10	U	10	U	10	U	1200	U		
1,2-Dibromoethane	10	U	10	U	10	U	1200	U		
Chlorobenzene	10	U	10	U	10	U	1200	U		
Ethylbenzene	10	U	10	U	10	U	1200	U		
Xylenes (total)	10	U	10	U	10	U	1200	U		
Styrene	10	U	10	U	10	U	1200	U		
Bromoform	10	U	10	U	10	U	1200	U		
Isopropylbenzene	10	U	10	U	10	U	1200	U		
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	1200	U		
1,3-Dichlorobenzene	10	U	10	U	10	U	1200	U		
1,4-Dichlorobenzene	10	U	10	U	10	U	1200	U		
1,2-Dichlorobenzene	10	U	10	U	10	U	1200	U		
1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	130	J		
1,2,4-Trichlorobenzene	10	U	10	U	10	U	270	J		

Analytical Results (Qualified Data)

Case # 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	VBLKRP		VBLKRS		VBLKRT		VBLKSJ			
Sampling Location :										
Matrix :	Soil		Soil		Soil		Soil			
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10	U	10	U	10	U	1200	UJ		
Chloromethane	10	U	10	U	10	U	1200	U		
Vinyl Chloride	10	U	10	U	10	U	1200	U		
Bromomethane	10	U	10	U	10	U	1200	U		
Chloroethane	10	U	10	U	10	U	1200	U		
Trichlorofluoromethane	10	U	10	U	10	U	1200	UJ		
1,1-Dichloroethene	10	U	10	U	10	U	1200	U		
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	U	10	U	1200	U		
Acetone	10	UJ	1	J	7	J	270	J		
Carbon Disulfide	10	U	10	U	10	U	1200	U		
Methyl Acetate	10	UJ	10	UJ	10	UJ	1200	U		
Methylene Chloride	1	J	2	J	3	J	1200	U		
trans-1,2-Dichloroethene	10	U	10	U	10	U	1200	U		
Methyl tert-Butyl Ether	10	U	10	U	10	U	1200	U		
1,1-Dichloroethane	10	U	10	U	10	U	1200	U		
cis-1,2-Dichloroethene	10	U	10	U	10	U	1200	U		
2-Butanone	10	UJ	10	U	10	U	1200	UJ		
Chloroform	10	U	10	U	10	U	1200	U		
1,1,1-Trichloroethane	10	U	10	U	10	U	1200	U		
Cyclohexane	10	U	10	U	10	U	1200	U		
Carbon Tetrachloride	10	U	10	U	10	U	1200	U		
Benzene	10	U	10	U	10	U	1200	U		
1,2-Dichloroethane	10	U	10	U	10	U	1200	U		
Trichloroethene	10	U	10	U	10	U	1200	U		
Methylcyclohexane	10	U	10	U	10	U	1200	U		
1,2-Dichloropropane	10	U	10	U	10	U	1200	U		
Bromodichloromethane	10	U	10	U	10	U	1200	U		
cis-1,3-Dichloropropene	10	U	10	U	10	U	1200	U		
4-Methyl-2-pentanone	10	U	10	U	10	U	1200	U		
Toluene	10	U	10	U	10	U	1200	U		
trans-1,3-Dichloropropene	10	U	10	U	10	U	1200	U		
1,1,2-Trichloroethane	10	U	10	U	10	U	1200	U		
Tetrachloroethene	10	U	10	U	10	U	1200	U		

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01YMSD		EE01Z		EE020		EE021		EE022	
Sampling Location :	X120		X121		X122		X123		X124	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	15:40		15:50		16:50		16:55		17:10	
%Moisture :	4		27		25		6		15	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	11	UJ	12	U	13	U	12	U	10	U
Dibromochloromethane	11	U	12	U	13	U	12	U	10	U
1,2-Dibromoethane	11	U	12	U	13	U	12	U	10	U
Chlorobenzene	57		12	U	13	U	12	U	10	U
Ethylbenzene	11	U	12	U	13	U	12	U	10	U
Xylenes (total)	11	U	12	U	13	U	12	U	10	U
Styrene	11	U	12	U	13	U	12	U	10	U
Bromoform	11	U	12	U	13	U	12	U	10	U
Isopropylbenzene	11	U	12	U	13	U	12	U	10	U
1,1,2,2-Tetrachloroethane	11	U	12	U	13	U	12	U	10	U
1,3-Dichlorobenzene	11	U	12	U	13	U	12	U	10	U
1,4-Dichlorobenzene	11	U	12	U	13	U	12	U	10	U
1,2-Dichlorobenzene	11	U	12	U	13	U	12	U	10	U
1,2-Dibromo-3-chloropropane	11	U	12	U	13	U	12	U	10	U
1,2,4-Trichlorobenzene	11	U	12	U	13	U	12	U	10	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01YMSD		EE01Z		EE020		EE021		EE022	
Sampling Location :	X120		X121		X122		X123		X124	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	15:40		15:50		16:50		16:55		17:10	
%Moisture :	4		27		25		6		15	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	11	U	12	U	13	U	12	U	10	U
Chloromethane	11	U	12	U	13	U	12	U	10	U
Vinyl Chloride	11	U	12	U	13	U	12	U	10	U
Bromomethane	11	U	12	U	13	U	12	U	10	U
Chloroethane	11	U	12	U	13	U	12	U	10	U
Trichlorofluoromethane	11	U	12	U	13	U	12	U	10	U
1,1-Dichloroethene	62		12	U	13	U	12	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroethane	11	U	12	U	13	U	12	U	10	U
Acetone	16	J	23	J	17	J	21	J	24	J
Carbon Disulfide	11	U	12	U	13	U	12	U	10	U
Methyl Acetate	11	UJ	12	UJ	13	UJ	12	UJ	10	UJ
Methylene Chloride	11	U	15		13	U	16		10	U
trans-1,2-Dichloroethene	11	U	12	U	13	U	12	U	10	U
Methyl tert-Butyl Ether	11	U	12	U	13	U	12	U	10	U
1,1-Dichloroethane	11	U	12	U	13	U	12	U	10	U
cis-1,2-Dichloroethene	11	U	12	U	13	U	12	U	10	U
2-Butanone	11	U	12	UJ	13	UJ	4	J	10	UJ
Chloroform	11	U	12	U	13	U	12	U	10	U
1,1,1-Trichloroethane	11	U	12	U	13	U	12	U	10	U
Cyclohexane	11	U	12	U	13	U	12	U	2	J
Carbon Tetrachloride	11	U	12	U	13	U	12	U	10	U
Benzene	56		12	U	13	U	12	U	1	J
1,2-Dichloroethane	11	U	12	U	13	U	12	U	10	U
Trichloroethene	51		12	U	13	U	12	U	10	U
Methylcyclohexane	2	J	12	U	13	U	12	U	3	J
1,2-Dichloropropane	11	U	12	U	13	U	12	U	10	U
Bromodichloromethane	11	U	12	U	13	U	12	U	10	U
cis-1,3-Dichloropropene	11	U	12	U	13	U	12	U	10	U
4-Methyl-2-pentanone	11	U	12	U	13	U	12	U	10	U
Toluene	61		1	J	13	U	2	J	4	J
trans-1,3-Dichloropropene	11	U	12	U	13	U	12	U	10	U
1,1,2-Trichloroethane	11	U	12	U	13	U	12	U	10	U
Tetrachloroethene	11	U	2	J	2	J	12	U	1	J

Analytical Results (Qualified Data)

Case # 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date

Sample Number :	EE01T		EE01W		EE01X		EE01Y		EE01YMS	
Sampling Location :	X117		X118		X119		X120		X120	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	13:25		14:20		14:35		15:40		15:40	
%Moisture :	19		18		22		4		4	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	14	UJ	20	UJ	64	UJ	9	UJ	11	UJ
Dibromochloromethane	14	U	20	U	64	U	9	U	11	U
1,2-Dibromoethane	14	U	20	U	64	U	9	U	11	U
Chlorobenzene	14	U	20	U	64	U	9	U	63	
Ethylbenzene	14	U	20	U	64	U	9	U	4	J
Xylenes (total)	14	U	20	U	64	U	4	J	16	
Styrene	14	U	20	U	64	U	9	U	11	U
Bromoform	14	U	20	U	64	U	9	U	11	U
Isopropylbenzene	14	U	20	U	64	U	9	U	11	U
1,1,2,2-Tetrachloroethane	14	U	20	U	64	U	9	U	11	U
1,3-Dichlorobenzene	14	U	20	U	64	U	9	U	11	U
1,4-Dichlorobenzene	14	U	20	U	64	U	9	U	11	U
1,2-Dichlorobenzene	14	U	20	U	64	U	9	U	11	U
1,2-Dibromo-3-chloropropane	14	U	20	U	64	U	9	U	11	U
1,2,4-Trichlorobenzene	14	U	20	U	64	U	9	U	11	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01T		EE01W		EE01X		EE01Y		EE01YMS	
Sampling Location :	X117		X118		X119		X120		X120	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	13:25		14:20		14:35		15:40		15:40	
%Moisture :	19		18		22		4		4	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	14	U	20	U	64	U	9	U	11	U
Chloromethane	14	U	20	U	64	U	9	U	11	U
Vinyl Chloride	14	U	20	U	64	U	9	U	11	U
Bromomethane	14	U	20	U	64	U	9	U	11	U
Chloroethane	14	U	20	U	64	U	9	U	11	U
Trichlorofluoromethane	14	U	20	U	64	U	9	U	11	U
1,1-Dichloroethene	14	U	20	U	64	U	9	U	59	
1,1,2-Trichloro-1,2,2-trifluoroethane	14	U	20	U	64	U	9	U	11	U
Acetone	52	J	20	UJ	210	J	130	J	47	J
Carbon Disulfide	14	U	20	U	64	U	9	U	11	U
Methyl Acetate	14	UJ	20	UJ	64	UJ	9	UJ	11	UJ
Methylene Chloride	14	U	20	U	64	U	9	U	11	U
trans-1,2-Dichloroethene	14	U	20	U	64	U	9	U	11	U
Methyl tert-Butyl Ether	14	U	20	U	64	U	9	U	11	U
1,1-Dichloroethane	14	U	20	U	64	U	9	U	11	U
cis-1,2-Dichloroethene	14	U	20	U	64	U	9	U	11	U
2-Butanone	14	U	20	U	33	J	22		11	
Chloroform	14	U	20	U	64	U	9	U	11	U
1,1,1-Trichloroethane	14	U	20	U	64	U	9	U	11	U
Cyclohexane	14	U	20	U	64	U	9	U	2	J
Carbon Tetrachloride	14	U	20	U	64	U	9	U	11	U
Benzene	14	U	20	U	64	U	9	U	60	
1,2-Dichloroethane	14	U	20	U	64	U	9	U	11	U
Trichloroethene	14	U	20	U	64	U	9	U	51	
Methylcyclohexane	14	U	20	U	64	U	1	J	2	J
1,2-Dichloropropane	14	U	20	U	64	U	9	U	11	U
Bromodichloromethane	14	U	20	U	64	U	9	U	11	U
cis-1,3-Dichloropropene	14	U	20	U	64	U	9	U	11	U
4-Methyl-2-pentanone	14	U	20	U	64	U	9	U	11	U
Toluene	14	U	20	U	64	U	2	J	80	
trans-1,3-Dichloropropene	14	U	20	U	64	U	9	U	11	U
1,1,2-Trichloroethane	14	U	20	U	64	U	9	U	11	U
Tetrachloroethene	1	J	3	J	64	U	9	U	11	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01Q		EE01QMS		EE01QMSD		EE01R		EE01S	
Sampling Location :	X114		X114		X114		X115		X116	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	12:00		12:00		12:00		12:15		13:25	
%Moisture :	4		4		4		26		18	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	8000	UJ	8000	UJ	8000	UJ	13	U	14	U
Dibromochloromethane	8000	U	8000	U	8000	U	13	U	14	U
1,2-Dibromoethane	8000	U	8000	U	8000	U	13	U	14	U
Chlorobenzene	8000	U	9800		10000		13	U	14	U
Ethylbenzene	10000		11000		11000		13	U	14	U
Xylenes (total)	34000		34000		35000		2	J	14	U
Styrene	8000	U	8000	U	8000	U	13	U	14	U
Bromoform	8000	U	8000	U	8000	U	13	U	14	U
Isopropylbenzene	2900	J	3100	J	3200	J	13	U	14	U
1,1,2,2-Tetrachloroethane	8000	U	8000	U	8000	U	13	U	14	U
1,3-Dichlorobenzene	8000	U	8000	U	8000	U	13	U	14	U
1,4-Dichlorobenzene	8000	U	8000	U	8000	U	13	U	14	U
1,2-Dichlorobenzene	8000	U	8000	U	8000	U	13	U	14	U
1,2-Dibromo-3-chloropropane	8000	U	8000	U	8000	U	13	U	14	U
1,2,4-Trichlorobenzene	8000	U	8000	U	8000	U	13	U	14	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site CLARK OIL
Lab. : LIBRTY
Reviewer
Date :

Sample Number :	EE01Q		EE01QMS		EE01QMSD		EE01R		EE01S	
Sampling Location :	X114		X114		X114		X115		X116	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	12:00		12:00		12:00		12:15		13:25	
%Moisture :	4		4		4		26		18	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	8000	UJ	8000	UJ	8000	UJ	13	U	14	U
Chloromethane	8000	U	8000	U	8000	U	13	U	14	U
Vinyl Chloride	8000	U	8000	U	8000	U	13	U	14	U
Bromomethane	8000	U	8000	U	8000	U	13	U	14	U
Chloroethane	8000	U	8000	U	8000	U	13	U	14	U
Trichlorofluoromethane	8000	UJ	8000	UJ	8000	UJ	13	U	14	U
1,1-Dichloroethene	8000	U	11000		11000		13	U	14	U
1,1,2-Trichloro-1,2,2-trifluoroethane	8000	U	8000	U	8000	U	13	U	14	U
Acetone	8000	UJ	8000	UJ	8000	UJ	34	UJ	49	J
Carbon Disulfide	8000	U	8000	U	8000	U	13	U	14	U
Methyl Acetate	8000	U	8000	U	8000	U	13	UJ	14	UJ
Methylene Chloride	8000	U	8000	U	8000	U	14	U	14	U
trans-1,2-Dichloroethene	8000	U	8000	U	8000	U	13	U	14	U
Methyl tert-Butyl Ether	8000	U	8000	U	8000	U	13	U	14	U
1,1-Dichloroethane	8000	U	8000	U	8000	U	13	U	14	U
cis-1,2-Dichloroethene	8000	U	8000	U	8000	U	13	U	14	U
2-Butanone	8000	UJ	8000	UJ	8000	UJ	6	J	9	J
Chloroform	8000	U	8000	U	8000	U	13	U	14	U
1,1,1-Trichloroethane	8000	U	8000	U	8000	U	13	U	14	U
Cyclohexane	58000		61000		52000		1	J	14	U
Carbon Tetrachloride	8000	U	8000	U	8000	U	13	U	14	U
Benzene	7100	J	11000		11000		3	J	14	U
1,2-Dichloroethane	8000	U	8000	U	8000	U	13	U	14	U
Trichloroethene	8000	U	9400		9700		13	U	14	U
Methylcyclohexane	130000		130000		130000		13	U	14	U
1,2-Dichloropropane	8000	U	8000	U	8000	U	13	U	14	U
Bromodichloromethane	8000	U	8000	U	8000	U	13	U	14	U
cis-1,3-Dichloropropene	8000	U	8000	U	8000	U	13	U	14	U
4-Methyl-2-pentanone	8000	U	8000	U	8000	U	13	U	14	U
Toluene	1800	J	10000		10000		2	J	2	J
trans-1,3-Dichloropropene	8000	U	8000	U	8000	U	13	U	14	U
1,1,2-Trichloroethane	8000	U	8000	U	8000	U	13	U	14	U
Tetrachloroethene	8000	U	8000	U	8000	U	13	U	14	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE01K		EE01L		EE01M		EE01N		EE01P	
Sampling Location :	X109		X110		X111		X112		X113	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	08:15		09:25		09:35		10:05		11:05	
%Moisture :	20		20		16		29		29	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	12	U	11	U	12	U	70	UJ	14	U
Dibromochloromethane	12	U	11	U	12	U	70	U	14	U
1,2-Dibromoethane	12	U	11	U	12	U	70	U	14	U
Chlorobenzene	12	U	11	U	12	U	70	U	14	U
Ethylbenzene	12	U	11	U	12	U	30	J	14	U
Xylenes (total)	12	U	5	J	12	U	1000		14	U
Styrene	12	U	11	U	12	U	20	J	14	U
Bromoform	12	U	11	U	12	U	70	U	14	U
Isopropylbenzene	12	U	11	U	12	U	39	J	14	U
1,1,2,2-Tetrachloroethane	12	U	11	U	12	U	70	U	14	U
1,3-Dichlorobenzene	12	U	11	U	12	U	70	U	14	U
1,4-Dichlorobenzene	12	U	11	U	12	U	70	U	14	U
1,2-Dichlorobenzene	12	U	11	U	12	U	70	U	14	U
1,2-Dibromo-3-chloropropane	12	U	11	U	12	U	70	U	14	U
1,2,4-Trichlorobenzene	12	U	11	U	12	U	70	U	14	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE01K
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Number of Soil Samples : 16
Number of Water Samples : 0

Sample Number :	EE01K		EE01L		EE01M		EE01N		EE01P	
Sampling Location :	X109		X110		X111		X112		X113	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000		11/02/2000	
Time Sampled :	08:15		09:25		09:35		10:05		11:05	
%Moisture :	20		20		16		29		29	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	12	U	11	U	12	U	70	U	14	U
Chloromethane	12	U	11	U	12	U	70	U	14	U
Vinyl Chloride	12	U	11	U	12	U	70	U	14	U
Bromomethane	12	U	11	U	12	U	70	U	14	U
Chloroethane	12	U	11	U	12	U	70	U	14	U
Trichlorofluoromethane	12	U	11	U	12	U	70	U	14	U
1,1-Dichloroethene	12	U	11	U	12	U	70	U	14	U
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	11	U	12	U	70	U	14	U
Acetone	11	J	19	UJ	43	J	70	UJ	23	J
Carbon Disulfide	12	U	11	U	12	U	70	U	14	U
Methyl Acetate	6	J	11	UJ	12	UJ	70	UJ	14	UJ
Methylene Chloride	16		11	U	17		70	U	22	
trans-1,2-Dichloroethene	12	U	11	U	12	U	70	U	14	U
Methyl tert-Butyl Ether	12	U	11	U	12	U	70	U	14	U
1,1-Dichloroethane	12	U	11	U	12	U	70	U	14	U
cis-1,2-Dichloroethene	12	U	11	U	12	U	70	U	14	U
2-Butanone	12	UJ	11	U	23	J	70	U	5	J
Chloroform	12	U	1	J	12	U	70	U	14	U
1,1,1-Trichloroethane	12	U	11	U	12	U	70	U	14	U
Cyclohexane	12	U	1	J	12	U	200		14	U
Carbon Tetrachloride	12	U	11	U	12	U	70	U	14	U
Benzene	12	U	2	J	12	U	70	U	14	U
1,2-Dichloroethane	12	U	11	U	12	U	70	U	14	U
Trichloroethene	12	U	11	U	12	U	70	U	14	U
Methylcyclohexane	12	U	3	J	1	J	710		14	U
1,2-Dichloropropane	12	U	11	U	12	U	70	U	14	U
Bromodichloromethane	12	U	11	U	12	U	70	U	14	U
cis-1,3-Dichloropropene	12	U	11	U	12	U	70	U	14	U
4-Methyl-2-pentanone	12	U	11	U	12	U	70	U	14	U
Toluene	2	J	3	J	2	J	16	J	3	J
trans-1,3-Dichloropropene	12	U	11	U	12	U	70	U	14	U
1,1,2-Trichloroethane	12	U	11	U	12	U	70	U	14	U
Tetrachloroethene	2	J	11	U	12	U	70	U	14	U

Semivolatile Analysis Data - EE01Q
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	17.59	102400.000	J
	UNKNOWN	18.19	101400.000	J
	UNKNOWN	18.38	130200.000	J
	UNKNOWN	18.52	108800.000	J
	METHYLANTHRACENE	18.79	105800.000	J
	UNKNOWN	19.06	129100.000	J
1207-15-4	2,6-DIMETHYLDIBENZO(B,D)THIOPHENE	19.19	104800.000	NJ
3674-69-9	PHENANTHRENE, 4,5-DIMETHYL-	19.53	119100.000	NJ
1576-67-6	PHENANTHRENE, 3,6-DIMETHYL-	19.61	171000.000	NJ
3674-69-9	PHENANTHRENE, 4,5-DIMETHYL-	19.75	180600.000	NJ
	UNKNOWN	19.80	178300.000	J
	DIMETHYLPHENANTHRENE	19.87	116600.000	J
	UNKNOWN	20.10	146000.000	J
	UNKNOWN	20.21	147000.000	J
	UNKNOWN	20.37	114200.000	J
3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHYL-	20.44	137200.000	NJ
3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHYL-	20.51	150300.000	NJ
	TRIMETHYLPHENANTHRENE	20.63	140700.000	J
	UNKNOWN	20.69	[illegible]	J
243-17-4	11H-BENZO[B]FLUORENE	[illegible]	[illegible]	NJ
	UNKNOWN	20.98	118300.000	J
3442-78-2	PYRENE, 1-METHYL-	21.03	145800.000	NJ
	METHYLPYRENE	21.24	141200.000	J
	UNKNOWN	21.41	135200.000	J
64401-21-4	PYRENE, 1,3-DIMETHYL-	21.74	152000.000	NJ
	UNKNOWN	21.91	149200.000	J
64401-21-4	PYRENE, 1,3-DIMETHYL-	22.06	144100.000	NJ
	UNKNOWN	22.55	102900.000	J
3697-24-3	CHRYSENE, 5-METHYL-	22.94	101800.000	NJ
	UNKNOWN	23.94	101900.000	J

Semivolatile Analysis Data - EE01KDL
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	13.80	985.000	JD
	UNKNOWN	14.49	844.600	JD
	TRIMETHYLNAPHTHALENE	15.79	923.600	JD
	UNKNOWN	16.00	907.800	JD
2131-41-1	NAPHTHALENE, 1,4,5-TRIMETHYL-	16.23	648.800	NJD
	UNKNOWN	16.47	794.400	JD
	UNKNOWN	16.54	665.200	JD
	UNKNOWN	16.76	1124.000	JD
	UNKNOWN	17.00	1191.000	JD
	METHYLFLUORENE	17.66	831.400	JD
	UNKNOWN	17.74	1506.000	JD
	UNKNOWN	18.00	926.900	JD
	UNKNOWN	18.20	855.400	JD
	UNKNOWN	18.67	707.800	JD
	UNKNOWN	18.71	778.500	JD
16587-52-3	DIBENZOTHIOPHENE, 3-METHYL-	19.05	669.000	NJD
	UNKNOWN	19.59	685.800	JD
	METHYLPHENANTHRENE	19.62	824.400	JD
	UNKNOWN	19.99	756.100	JD
3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	20.20	1150.000	NJD
1576-69-8	PHENANTHRENE, 2,7-DIMETHYL-	20.32	1494.000	NJD
3674-65-5	PHENANTHRENE, 2,6-DIMETHYL-	20.40	[illegible]	NJD
3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	20.57	628.300	NJD
3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHYL-	21.21	602.700	NJD
2381-21-7	PYRENE, 1-METHYL-	21.94	845.800	NJD

Semivolatile Analysis Data - SBLKUM
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN AMINE (BC)	18.54	1372.000	J
	UNKNOWN AMIDE (BC)	24.62	1163.000	J
	UNKNOWN (BC)	26.11	2381.000	J
	UNKNOWN (BC)	29.39	11910.000	J

Semivolatile Analysis Data - EE020
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	17.12	261.300	J
	UNKNOWN	17.67	253.000	J
	UNKNOWN	17.76	490.000	J
	UNKNOWN	17.91	270.900	J
	UNKNOWN	18.22	828.100	J
	UNKNOWN	18.55	289.200	J
	UNKNOWN	18.71	551.900	J
16587-52-3	DIBENZOTHIOPHENE, 3-METHYL-	19.06	272.600	NJ
	UNKNOWN	19.11	528.700	J
	METHYLDIBENZOTHIOPHENE	19.22	290.100	J
	UNKNOWN	19.40	595.500	J
	UNKNOWN	19.49	327.100	J
	DIMETHYLDIBENZOTHIOPHENE	19.84	337.800	J
	UNKNOWN	19.94	252.600	J
	DIMETHYLNAPHTHOTHIOPHENE	20.01	435.900	J
	UNKNOWN	20.10	261.300	J
	UNKNOWN	20.21	431.200	J

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Semivolatile Analysis Data - EE01LDL
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	19.47	4336.000	JD
832-69-9	PHENANTHRENE, 1-METHYL-	19.67	5393.000	NJD
	UNKNOWN	20.08	4340.000	JD
	UNKNOWN	20.26	4141.000	JD
1576-67-6	PHENANTHRENE, 3,6-DIMETHYL-	20.35	4897.000	NJD
	UNKNOWN	20.50	3788.000	JD
5522-01-0	2H-1,4-BENZOTHIAZIN-3(4H)-ONE, 4-HYDROXY	20.76	4675.000	NJD
	UNKNOWN	20.91	6531.000	JD
	UNKNOWN	21.01	4802.000	JD
	UNKNOWN	21.15	7025.000	JD
	UNKNOWN	21.26	4688.000	JD
3674-73-5	PHENANTHRENE, 3,3,5-TRIMETHYL-	21.37	4644.000	NJD
	UNKNOWN	21.64	4561.000	JD
	UNKNOWN	21.77	4662.000	JD
	UNKNOWN	21.86	3850.000	JD
3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHYL-	21.96	6307.000	NJD
3442-78-2	PYRENE, 2-METHYL-	22.03	3419.000	NJD
3442-78-2	PYRENE, 2-METHYL-	22.21	3363.000	NJD
	UNKNOWN	22.26	5130.000	JD
	UNKNOWN	22.42	3136.000	JD
	UNKNOWN	22.64	3130.000	JD
	UNKNOWN	22.69	2897.000	JD
	UNKNOWN	23.67	4267.000	JD
2498-77-3	BENZ[A]ANTHRACENE, 1-METHYL-	24.18	2855.000	NJD
	METHYLCHRYSENE	24.45	2711.000	JD
24964-16-7	BENZO[E]NAPHTHO[2,3-D]THIOPHENE, 6,8-DIM	24.60	3072.000	NJD
	UNKNOWN	24.72	2654.000	JD
	UNKNOWN	25.06	2411.000	JD
	UNKNOWN	25.24	2548.000	JD
	UNKNOWN	25.45	3317.000	JD

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Semivolatile Analysis Data - EE01X
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	15.05	220.500	J
	UNKNOWN	15.81	318.400	J
	UNKNOWN	16.73	256.200	J
	UNKNOWN	17.76	893.200	J
	DIBENZOTHIOPHENE	18.22	543.000	J
	UNKNOWN	19.72	662.900	J
7372-88-5	DIBENZOTHIOPHENE, 4-METHYL-	19.06	561.200	NJ
	UNKNOWN	19.59	391.000	J
	UNKNOWN	19.64	570.800	J
	UNKNOWN	19.94	462.300	J
1207-15-4	2,8-DIMETHYLDIBENZO(B,D)THIOPHENE	20.01	494.500	NJ
3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	20.21	695.800	NJ
3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	20.32	788.700	NJ
3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	20.43	578.100	NJ
	UNKNOWN	20.48	452.900	J
3674-69-9	PHENANTHRENE, 4,5-DIMETHYL-	20.59	395.900	NJ
	UNKNOWN	20.84	374.700	J
	TRIMETHYLPHENANTHRENE	21.30	328.700	J
2381-21-7	PYRENE, 1-METHYL-	21.84	[illegible]	NJ

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Semivolatile Analysis Data - EE01Y
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	16.80	11220.000	J
	UNKNOWN	17.29	6123.000	J
	UNKNOWN	17.39	7636.000	J
	UNKNOWN	17.48	11610.000	J
	UNKNOWN	17.66	11100.000	J
	UNKNOWN	17.76	7027.000	J
	UNKNOWN	18.00	7140.000	J
	UNKNOWN	18.17	8516.000	J
	UNKNOWN	18.46	[illegible]	J
	UNKNOWN	18.68	7248.000	J
	UNKNOWN	18.78	7300.000	J
	UNKNOWN	18.81	7505.000	J
7372-88-5	DIBENZOTHIOPHENE, 4-METHYL-	19.15	6375.000	NJ
	UNKNOWN	19.20	9171.000	J
30995-64-3	METHYLDIBENZOTHIOPHENE	19.31	2652.000	NJ
	UNKNOWN	19.41	2228.000	J
	METHYLANTHRACENE	19.47	2795.000	J
	UNKNOWN	19.59	2150.000	J
468-84-8	3H-NAPHTHO[2,1-B]PYRAN-3-ONE, DODECAHYDR	19.71	4520.000	NJ
	UNKNOWN	19.93	3822.000	J
	DIMETHYLNAPHTHOTHIOPHENE	20.12	3397.000	J
3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	20.30	2070.000	NJ
3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	20.54	2590.000	NJ
	UNKNOWN	20.78	3513.000	J
	UNKNOWN	20.93	2036.000	J
	UNKNOWN	21.03	2272.000	J
	UNKNOWN	21.17	2101.000	J
	UNKNOWN	21.30	1944.000	J
	UNKNOWN	22.37	2026.000	J
24360-63-2	BENZO[B]NAPHTHO[2,3-D]THIOPHENE, 6-METHY	23.78	2332.000	NJ

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Semivolatile Analysis Data - SBLKTT
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (BC)	9.45	[illegible]	J
	UNKNOWN (BC)	10.65	[illegible]	J
	UNKNOWN (BC)	31.89	[illegible]	J

Semivolatile Analysis Data - EE01L
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	17.91	[illegible]	J
	UNKNOWN	18.03	1439.000	J
	UNKNOWN	18.27	1566.000	J
	UNKNOWN	18.75	1586.000	J
	UNKNOWN	18.98	736.600	J
	UNKNOWN	19.02	1023.000	J
30995-84-3	METHYLDIBENZOTHIOPHENE	19.29	738.400	NJ
	UNKNOWN	19.36	813.300	J
	UNKNOWN	19.51	1456.000	J
	UNKNOWN	19.69	1568.000	J
	UNKNOWN	19.93	908.000	J
	UNKNOWN	20.12	1129.000	J
	UNKNOWN	20.24	901.800	J
	UNKNOWN	20.30	914.700	J
	UNKNOWN	20.39	1342.000	J
781-43-1	9,10-DIMETHYLANTHRACENE	20.54	862.900	NJ
	UNKNOWN	20.59	926.700	J
	UNKNOWN	20.78	879.500	J
	UNKNOWN	20.95	1091.000	J
	UNKNOWN	21.05	982.600	J
	UNKNOWN	21.18	1012.000	J
	UNKNOWN	21.30	983.000	J
3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHYL-	21.40	724.600	NJ
	UNKNOWN	21.81	794.300	J
	TRIMETHYLPHENANTHRENE	22.00	809.300	J
	UNKNOWN	22.30	752.100	J
	UNKNOWN	22.44	2823.000	J
	UNKNOWN	22.66	2558.000	J
	UNKNOWN	22.73	2871.000	J

Semivolatile Analysis Data - EE01R
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	11.42	621.600	J
	UNKNOWN	11.89	649.100	J
	UNKNOWN	12.21	859.000	J
	UNKNOWN	13.33	1386.000	J
	UNKNOWN	13.38	893.500	J
	UNKNOWN	13.53	1279.000	J
	UNKNOWN	14.09	624.900	J
	UNKNOWN	14.24	864.500	J
	UNKNOWN	14.56	730.900	J
	UNKNOWN	14.92	483.800	J
	UNKNOWN	15.02	768.200	J
	UNKNOWN	15.99	310.900	J
	UNKNOWN	16.17	439.800	J
	UNKNOWN	29.18	1752.000	J

Semivolatile Analysis Data - EE01W
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	1-METHYLNAPHTHALENE	13.83	538600.000	J
571-61-9	NAPHTHALENE, 1,5-DIMETHYL-	14.86	29090.000	NJ
	UNKNOWN	14.95	26840.000	J
575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	15.03	31080.000	NJ
575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	15.07	29740.000	NJ
	UNKNOWN	15.71	40900.000	J
	UNKNOWN	15.79	36970.000	J
2027-17-0	NAPHTHALENE, 2-(1-METHYLETHYL)-	15.90	38490.000	NJ
16587-43-2	BENZO[B]THIOPHENE, 2-ETHYL-7-METHYL-	15.93	32400.000	NJ
	UNKNOWN	16.05	44[illegible]	J
	UNKNOWN	16.12	32590.000	J
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	16.17	34760.000	NJ
	UNKNOWN	16.25	41650.000	J
	UNKNOWN	16.30	28760.000	J
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	16.35	40340.000	NJ
	UNKNOWN	16.49	47310.000	J
	UNKNOWN	16.64	30430.000	J
	UNKNOWN	16.68	29850.000	J
	TRIMETHYLNAPHTHALENE	16.74	33[illegible]	J
	UNKNOWN	16.79	42470.000	J
	UNKNOWN	16.90	33660.000	J
	UNKNOWN	17.06	29960.000	J
	UNKNOWN	17.29	32380.000	J
	UNKNOWN	17.34	26360.000	J
	UNKNOWN	17.39	25350.000	J
	UNKNOWN	17.57	39430.000	J
	UNKNOWN	17.76	31200.000	J
	UNKNOWN	17.89	35740.000	J
	UNKNOWN	18.15	32700.000	J
	UNKNOWN	18.89	28120.000	J

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Semivolatile Analysis Data - EE01WDL
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
90-12-0	NAPHTHALENE, 1-METHYL-	13.80	27910.000	NJD
581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	14.83	32700.000	NJD
	UNKNOWN	14.92	29920.000	JD
573-98-8	NAPHTHALENE, 1,2-DIMETHYL-	14.99	34710.000	NJD
581-40-9	NAPHTHALENE, 2,3-DIMETHYL-	15.04	33300.000	NJD
	UNKNOWN	15.44	26860.000	JD
	UNKNOWN	15.73	26950.000	JD
16587-51-2	BENZO[B]THIOPHENE, 2-ETHYL-5-METHYL-	15.77	31840.000	NJD
2027-17-0	NAPHTHALENE, 2-(1-METHYLETHYL)-	15.85	36440.000	NJD
	UNKNOWN	15.90	28020.000	JD
2388-04-7	BENZENE, ETHYLPENTAMETHYL-	16.04	43770.000	NJD
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	16.12	40580.000	NJD
	UNKNOWN	16.21	56240.000	JD
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	16.31	49240.000	NJD
	UNKNOWN	16.44	52800.000	JD
	UNKNOWN	16.59	42160.000	JD
	UNKNOWN	16.65	31090.000	JD
	UNKNOWN	16.71	28920.000	JD
	UNKNOWN	16.76	52190.000	JD
	UNKNOWN	16.87	28460.000	JD
	UNKNOWN	17.04	32280.000	JD
	UNKNOWN	17.24	35900.000	JD
	UNKNOWN	17.29	30120.000	JD
	UNKNOWN	17.53	45130.000	JD
1730-37-6	9H-FLUORENE, 1-METHYL-	17.80	50820.000	NJD
	UNKNOWN	19.13	28680.000	JD

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Semivolatile Analysis Data - EE022
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
112-80-1	OLEIC ACID	19.46	1453.000	NJ
	UNKNOWN	19.64	1368.000	J
	UNKNOWN	20.10	1570.000	J
7459-33-8	9,12-OCTADECADIENOYL CHLORIDE, (Z,Z)-	20.90	1540.000	NJ
3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHYL-	21.37	444.200	NJ
	UNKNOWN	21.79	309.500	J
	UNKNOWN	22.01	420.400	J
	UNKNOWN	22.19	360.600	J
	UNKNOWN	22.29	318.000	J
	UNKNOWN	22.37	307.300	J
	UNKNOWN	22.42	252.200	J
	UNKNOWN	22.62	414.200	J
	UNKNOWN	22.74	261.000	J
	UNKNOWN	22.91	319.700	J
239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPHENE	22.98	261.600	NJ
	UNKNOWN	23.32	491.900	J
	UNKNOWN	23.79	387.000	J
3697-24-3	CHRYSENE, 5-METHYL-	24.18	389.200	NJ
	UNKNOWN	24.37	388.400	J
	UNKNOWN	24.49	444.600	J
	UNKNOWN	25.27	549.900	J
	UNKNOWN	26.71	519.300	J
	UNKNOWN	26.72	609.100	J
	UNKNOWN	27.16	457.100	J
	UNKNOWN	27.60	473.700	J

Semivolatile Analysis Data - EE01N
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	14.83	25510.000	NJ
581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	15.03	28190.000	NJ
	UNKNOWN	15.66	40420.000	J
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	15.84	27180.000	NJ
	SUBSTITUTED BENZENE	15.90	25110.000	J
	UNKNOWN	16.05	39800.000	J
2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL-	16.13	39710.000	NJ
	UNKNOWN	16.22	36770.000	J
829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL-	16.32	29690.000	NJ
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	16.49	26430.000	NJ
	UNKNOWN	16.61	36130.000	J
	UNKNOWN	16.64	30560.000	J
	UNKNOWN	16.78	27370.000	J
	UNKNOWN	16.81	26140.000	J
	UNKNOWN	17.05	28460.000	J
	UNKNOWN	17.25	33900.000	J
	UNKNOWN	17.42	24520.000	J
	UNKNOWN	17.54	25680.000	J
	UNKNOWN	17.88	32350.000	J
	UNKNOWN	17.91	28760.000	J
	UNKNOWN	18.13	33700.000	J
	UNKNOWN	18.27	56180.000	J
	UNKNOWN	18.77	30390.000	J
7372-88-5	DIBENZOTHIOPHENE, 4-METHYL-	19.11	28130.000	NJ
	UNKNOWN	19.16	36950.000	J
613-12-7	ANTHRACENE, 2-METHYL-	19.48	45370.000	NJ
779-02-2	ANTHRACENE, 9-METHYL-	19.64	25210.000	NJ
	UNKNOWN	19.69	29460.000	J
	UNKNOWN	20.06	37110.000	J
	UNKNOWN	20.35	30980.000	J

Semivolatile Analysis Data - EE01T
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
95-36-3	1,2,4-TRIMETHYLBENZENE	9.27	1470.000	NJ
90-12-0	NAPHTHALENE, 1-METHYL-	13.84	728.100	NJ
1127-76-0	NAPHTHALENE, 1-ETHYL-	14.73	812.300	NJ
581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	14.85	1233.000	NJ
571-58-4	NAPHTHALENE, 1,4-DIMETHYL-	15.02	640.900	NJ
2027-17-0	NAPHTHALENE, 2-(1-METHYLETHYL)-	15.87	1003.000	NJ
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	16.14	953.600	NJ
2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL-	16.33	1026.000	NJ
	UNKNOWN	16.66	1655.000	J
	UNKNOWN	16.78	1567.000	J
	UNKNOWN	16.83	596.400	J
	UNKNOWN	17.33	446.100	J
	UNKNOWN	17.38	977.600	J
	UNKNOWN	17.49	1531.000	J
	UNKNOWN	17.55	890.900	J
	UNKNOWN	17.61	486.800	J
	UNKNOWN	17.66	642.700	J
613-33-2	4,4'-DIMETHYLBIPHENYL	17.83	1218.000	NJ
	UNKNOWN	17.99	635.300	J
	UNKNOWN	18.02	466.900	J
	UNKNOWN	18.24	1041.000	J
	UNKNOWN	18.63	396.400	J
	UNKNOWN	19.02	615.000	J
	UNKNOWN	19.70	502.900	J
1576-67-6	PHENANTHRENE, 3,6-DIMETHYL-	20.37	470.800	NJ

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Semivolatile Analysis Data - EE01Z
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	8.37	92.110	J
	UNKNOWN AMIDE	24.84	138.900	J
	UNKNOWN	29.30	95.470	J

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Semivolatile Analysis Data - EE021
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	9.94	95.740	J
57-10-3	HEXADECANOIC ACID	19.52	143.200	NJ
57-11-4	OCTADECANOIC ACID	20.98	119.000	NJ
	UNKNOWN	24.08	78.820	J
	UNKNOWN	24.43	79.110	J

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Semivolatile Analysis Data - EE01S
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
620-14-4	BENZENE, 1-ETHYL-3-METHYL-	8.85	2481.000	NJ
95-36-3	1,2,4-TRIMETHYLBENZENE	9.28	2530.000	NJ
1074-43-7	BENZENE, 1-METHYL-3-PROPYL-	10.48	1472.000	NJ
90-12-0	NAPHTHALENE, 1-METHYL-	13.86	1697.000	NJ
1127-76-0	NAPHTHALENE, 1-ETHYL-	14.74	1413.000	NJ
581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	14.85	3230.000	NJ
581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	15.03	1759.000	NJ
2027-17-0	NAPHTHALENE, 2-(1-METHYLETHYL)-	15.89	948.300	NJ
	UNKNOWN	18.27	588.700	J
	UNKNOWN	18.77	953.200	J
882-33-7	DISULFIDE, DIPHENYL	18.91	734.900	NJ
	UNKNOWN	18.98	655.700	J
	UNKNOWN	19.05	1222.000	J
16587-52-3	DIBENZOTHIOPHENE, 3-METHYL-	19.16	704.400	NJ
	UNKNOWN	19.20	616.300	J
7372-89-8	DIBENZOTHIOPHENE, 4-METHYL-	19.32	692.600	NJ
	UNKNOWN	19.38	651.900	J
	UNKNOWN	19.44	662.800	J
	METHYLANTHRACENE	19.49	899.400	J
1961-96-2	1H-INDENE, 1-PHENYL-	19.54	1104.000	NJ
832-71-3	PHENANTHRENE, 3-METHYL-	19.60	985.100	NJ
	UNKNOWN	19.72	1005.000	J
	UNKNOWN	19.93	803.000	J
	UNKNOWN	20.11	1123.000	J
	DIMETHYLPHENANTHRENE	20.40	1359.000	J
	UNKNOWN	20.60	870.000	J
	UNKNOWN	20.79	1177.000	J
	UNKNOWN	20.91	1024.000	J
	UNKNOWN	21.11	651.400	J
	UNKNOWN	29.41	1734.000	J

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Semivolatile Analysis Data - EE01SDL
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	14.85	3808.000	NJD
2027-17-0	NAPHTHALENE, 2-(1-METHYLETHYL)-	15.86	2509.000	NJD
829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL-	16.32	2413.000	NJD
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	16.45	2506.000	NJD
	UNKNOWN	16.75	2105.000	JD
	UNKNOWN	17.37	1069.000	JD
	UNKNOWN	17.59	1079.000	JD
	UNKNOWN	17.74	1138.000	JD
	UNKNOWN	17.81	1943.000	JD
	UNKNOWN	17.96	1198.000	JD
	UNKNOWN	18.13	1792.000	JD
132-65-0	DIBENZOTHIOPHENE	18.27	2441.000	NJD
	UNKNOWN	18.77	1537.000	JD
882-33-7	DISULFIDE, DIPHENYL	18.86	1242.000	NJD
	UNKNOWN	18.93	1870.000	JD
	UNKNOWN	19.01	1671.000	JD
16587-52-3	DIBENZOTHIOPHENE, 3-METHYL-	19.27	1481.000	NJD
	UNKNOWN	19.49	1545.000	JD
832-69-9	PHENANTHRENE, 1-METHYL-	19.55	1463.000	NJD
	UNKNOWN	19.69	1625.000	JD
	UNKNOWN	19.89	1209.000	JD
	UNKNOWN	20.06	2322.000	JD
16587-34-1	NAPHTHO[2,3-B]THIOPHENE, 4,9-DIMETHYL-	20.26	1372.000	NJD

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Semivolatile Analysis Data - EE01K
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K
LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	22.27	179.000	J
	UNKNOWN	22.44	126.500	J
	UNKNOWN	22.61	115.700	J
	UNKNOWN	22.73	164.000	J
	UNKNOWN	23.30	383.800	J
	UNKNOWN	23.78	371.500	J
	UNKNOWN	23.93	417.300	J
	METHYLBENZANTHRACENE	24.15	480.300	J
	UNKNOWN	24.42	474.800	J
	UNKNOWN	24.94	271.000	J
	UNKNOWN	25.03	269.700	J
	UNKNOWN	26.86	418.400	J
	UNKNOWN	27.52	175.800	J
	UNKNOWN	28.33	179.000	J
	UNKNOWN	29.36	849.600	J
	UNKNOWN	29.67	165.000	J
	UNKNOWN	30.35	415.400	J
	UNKNOWN	31.92	208.900	J

Semivolatile Analysis Data - EE01M
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K
LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	25.18	94.090	J

Semivolatile Analysis Data - EE01P
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K
LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	29.29	572.500	J

Volatile Analysis Data - EE01L
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	5.19	24.560	J
	BRANCHED ALKANE	4.67	32.370	J
	STRAIGHT-CHAIN ALKANE	5.35	10.040	J
	UNKNOWN	7.25	10.670	J
	UNKNOWN	7.66	9.990	J
	UNKNOWN	8.35	19.300	J
	UNKNOWN	8.92	19.190	J
	UNKNOWN	10.53	15.970	J
541-05-9	CYCLOTRISILOXANE, HEXAMETHYL-	13.45	7.400	NJB
556-67-2	CYCLOTETRASILOXANE, OCTAMETHYL-	16.04	24.930	NJB
	UNKNOWN	17.73	16.580	J
	LABORATORY ARTIFACT	19.26	9.430	JB

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Volatile Analysis Data - EE01R
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	8.37	26.970	J
	UNKNOWN	8.88	18.630	J
541-05-9	CYCLOTRISILOXANE, HEXAMETHYL-	13.56	9.020	NJB
	BRANCHED ALKANE	19.02	19.150	J

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Semivolatile Analysis Data - SBLKSY
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (BC)	9.54	126.600	J

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Volatile Analysis Data - EE01K
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	CYCLIC ALKANE	15.17	146.500	J
	BRANCHED ALKANE	15.40	217.100	J
	UNKNOWN	15.97	420.000	J
	UNKNOWN	16.27	335.900	J
	UNKNOWN ALKANE	16.44	134.700	J
	BRANCHED ALKANE	16.53	1250.000	J
	BRANCHED ALKANE	16.74	800.300	J
	UNKNOWN	16.85	457.400	J
	BRANCHED ALKANE	16.92	651.200	J
	CYCLIC ALKANE	17.08	688.200	J
493-02-7	NAPHTHALENE, DECAHYDRO-, TRANS-	17.26	481.700	NJ
	UNKNOWN	17.40	716.200	J
	CYCLIC ALKANE	17.43	528.200	J
	UNKNOWN	17.54	1391.000	J
	UNKNOWN ALKANE	17.66	1079.000	J
	CYCLIC ALKANE	17.78	237.400	J
2958-76-1	NAPHTHALENE, DECAHYDRO-2-METHYL-	17.84	268.300	NJ
	UNKNOWN	17.90	1703.000	J
	SUBSTITUTED NAPHTHALENE	18.03	1172.000	J
	UNKNOWN	18.14	368.500	J
	BRANCHED ALKANE	18.31	592.300	J
	UNKNOWN	18.36	1390.000	J
	BRANCHED ALKANE	18.45	2734.000	J
	UNKNOWN	18.51	1636.000	J
	BRANCHED ALKANE	18.63	262.600	J
	UNKNOWN	18.77	384.300	J
	CYCLIC ALKANE	18.83	2670.000	J
	BRANCHED ALKANE	18.95	2614.000	J
	UNKNOWN	19.05	999.100	J
	UNKNOWN	19.17	803.500	J
	UNKNOWN	19.32	4096.000	J
	SUBSTITUTED BENZENE	19.52	294.800	J
	UNKNOWN	19.59	224.900	J
	UNKNOWN	19.70	823.600	J
	CYCLIC ALKANE	19.75	756.700	J
	BRANCHED ALKANE	19.87	1680.000	J
	UNKNOWN	19.93	387.500	J
	UNKNOWN ALKANE	20.11	1395.000	J
	UNKNOWN	20.18	598.100	J
	UNKNOWN	20.33	770.600	J
	UNKNOWN	20.53	239.600	J
	BRANCHED ALKANE	20.68	875.400	J
	CYCLIC ALKANE	20.78	303.100	J
	UNKNOWN	21.01	173.100	J
	UNKNOWN	21.06	149.600	J
575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	21.26	344.700	NJ
	UNKNOWN	21.47	217.700	J
	UNKNOWN	21.64	148.700	J

Volatile Analysis Data - VBLKRT
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
541-05-9	CYCLOTRISILOXANE, HEXAMETHYL-	13.40	6.680	NJ
556-67-2	CYCLOTETRASILOXANE, OCTAMETHYL-	15.98	50.440	NJ
	LABORATORY ARTIFACT	17.68	109.000	J
	LABORATORY ARTIFACT	19.20	32.370	J

Volatile Analysis Data - EE01N
Tentatively Identified Compounds

CASE NO: 29678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	BRANCHED ALKANE	13.45	771.200	J
	CYCLIC ALKANE	14.02	733.300	J
	BRANCHED ALKANE	14.35	2099.000	J
	BRANCHED ALKANE	14.49	1470.000	J
	UNKNOWN ALKANE	14.94	2229.000	J
	CYCLIC ALKANE	15.23	2482.000	J
	BRANCHED ALKANE	15.47	2757.000	J
	UNKNOWN	15.59	3273.000	J
	BRANCHED ALKANE	15.85	5948.000	J
	BRANCHED ALKANE	15.97	3247.000	J
611-14-3	BENZENE, 1-ETHYL-2-METHYL-	16.20	1391.000	NJ
	STRAIGHT-CHAIN ALKANE	16.32	10730.000	J
611-14-3	BENZENE, 1-ETHYL-2-METHYL-	16.49	2950.000	NJ
	BRANCHED ALKANE	16.61	7514.000	J
	BRANCHED ALKANE	16.81	2874.000	J
527-84-4	BENZENE, 1-METHYL-2-(1-METHYLETHYL)-	16.90	6346.000	NJ
	BRANCHED ALKANE	17.05	7874.000	J
	UNKNOWN ALKANE	17.15	2933.000	J
1074-43-7	BENZENE, 1-METHYL-3-PROPYL-	17.25	2296.000	NJ
99-87-6	BENZENE, 1-METHYL-4-(1-METHYLETHYL)-	17.31	2917.000	NJ
	STRAIGHT-CHAIN ALKANE	17.44	13280.000	J
	SUBSTITUTED BENZENE	17.57	[illegible]	J
	SUBSTITUTED BENZENE	17.78	4816.000	J
	SUBSTITUTED BENZENE	17.86	1437.000	J
	SUBSTITUTED BENZENE	17.91	906.000	J
	UNKNOWN	17.99	4489.000	J
95-93-2	BENZENE, 1,2,4,5-TETRAMETHYL-	18.06	3952.000	NJ
	SUBSTITUTED BENZENE	18.14	3466.000	J
	SUBSTITUTED BENZENE	18.26	1080.000	J
	UNKNOWN ALKANE	18.41	11480.000	J
	BRANCHED ALKANE	18.53	4412.000	J
	UNKNOWN	18.59	2623.000	J
	SUBSTITUTED BENZENE	18.76	3056.000	J
17059-48-2	1H-INDENE, 2,3-DIHYDRO-1,6-DIMETHYL-	18.85	3326.000	NJ
	UNKNOWN	18.91	4414.000	J
	BRANCHED ALKANE	19.03	3315.000	J
	UNKNOWN	19.14	1652.000	J
	UNKNOWN ALKANE	19.25	1836.000	J
	DIHYDRODIMETHYLINDENE	19.32	3517.000	J
17057-82-8	1H-INDENE, 2,3-DIHYDRO-1,5-DIMETHYL-	19.48	1991.000	NJ
	UNKNOWN	19.66	1355.000	J
	DIHYDRODIMETHYLINDENE	19.81	2350.000	J
	SUBSTITUTED NAPHTHALENE	19.95	1453.000	J
	UNKNOWN	20.43	960.700	J
	UNKNOWN	20.75	1402.000	J
	SUBSTITUTED NAPHTHALENE	21.00	822.100	J
581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	21.15	1142.000	NJ
581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	21.34	1300.000	NJ

Volatile Analysis Data - EE01T
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q

Volatile Analysis Data - EE01W
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
541-05-9	CYCLOTRISILOXANE, HEXAMETHYL-	13.41	12.480	NJ
	STRAIGHT-CHAIN ALKANE	20.01	36.150	J
	BRANCHED ALKANE	20.64	31.150	J
	STRAIGHT-CHAIN ALKANE	21.03	35.330	J

Volatile Analysis Data - EE01Y
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN ALKENE	16.14	20.260	J
930-02-9	OCTADECANE, 1-(ETHENYLOXY)-	16.43	20.860	NJ
	BRANCHED ALKANE	16.70	25.700	J
	UNKNOWN	16.92	13.340	J
	CYCLIC ALKANE	17.01	14.170	J
	SUBSTITUTED BENZENE	17.15	17.020	J
0-00-0	1-ETHYL-2,2,6-TRIMETHYLCYCLOHEXANE	17.26	13.450	NJ
	UNKNOWN	17.62	15.760	J
	UNKNOWN	17.73	20.250	J
	BRANCHED ALKANE	17.85	20.230	J
	UNKNOWN	18.10	20.410	J
	UNKNOWN	18.23	20.140	J
	BRANCHED ALKANE	18.45	15.150	J
	UNKNOWN	18.56	28.610	J
	BRANCHED ALKANE	18.65	39.290	J
	UNKNOWN	18.71	27.730	J
	CYCLIC ALKANE	19.02	34.570	J
	BRANCHED ALKANE	19.15	50.750	J
	CYCLIC ALKANE	19.25	20.800	J
	CYCLIC ALKANE	19.40	14.250	J
	UNKNOWN	19.47	43.390	J
	UNKNOWN ALKANE	19.54	37.290	J
12108-13-3	MANGANESE, TRICARBONYL[(1,2,3,4,5-.ETA.)	19.78	17.330	NJ
	UNKNOWN PNA	19.82	14.300	J
	BRANCHED ALKANE	20.07	64.620	J
	UNKNOWN	20.56	19.590	J
	STRAIGHT-CHAIN ALKANE	20.88	47.370	J
	BRANCHED ALKANE	21.11	19.040	J

Volatile Analysis Data - EE01M
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	2.73	6.920	J
	STRAIGHT-CHAIN ALKANE	3.18	21.500	J
	BRANCHED ALKANE	4.65	36.770	J
	STRAIGHT-CHAIN ALKANE	5.33	9.160	J
	UNKNOWN ALKANE	7.22	17.660	J
	UNKNOWN ALKANE	7.63	10.690	J
	UNKNOWN	8.31	8.760	J
	UNKNOWN	8.90	14.320	J
	UNKNOWN ALKANE	9.95	15.230	J
	UNKNOWN	10.45	24.130	J
556-67-2	CYCLOTETRASILOXANE, OCTAMETHYL-	16.09	18.420	NJ
	BRANCHED ALKANE	16.59	6.480	J
	UNKNOWN	16.87	13.710	J
	BRANCHED ALKANE	17.11	7.030	J
	UNKNOWN	17.63	7.230	J
	UNKNOWN	18.12	8.390	J
	UNKNOWN	18.43	7.820	J
17059-48-2	1H-INDENE, 2,3-DIHYDRO-1,6-DIMETHYL-	18.71	6.930	NJ
4175-53-5	1H-INDENE, 2,3-DIHYDRO-1,3-DIMETHYL-	18.84	10.740	NJ
	UNKNOWN	19.14	7.670	J

Volatile Analysis Data - EE01P
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q

Volatile Analysis Data - EE01S
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q

Volatile Analysis Data - VBLKRS
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	LABORATORY ARTIFACT	13.49	5.040	J
	LABORATORY ARTIFACT	16.10	56.600	J
	LABORATORY ARTIFACT	17.80	78.200	J
	LABORATORY ARTIFACT	19.35	8.580	J

Volatile Analysis Data - EE021
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	8.30	14.300	J
	UNKNOWN	8.74	10.910	J
	UNKNOWN	9.13	7.900	J
556-67-2	CYCLOTETRASILOXANE, OCTAMETHYL-	15.98	19.830	NJ

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Volatile Analysis Data - EE022
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	5.95	6.180	J
	UNKNOWN	7.23	12.270	J
	UNKNOWN	7.64	9.150	J
	UNKNOWN	8.10	9.550	J
	UNKNOWN	8.35	33.210	J
	UNKNOWN	8.78	29.150	J
	UNKNOWN	9.17	15.620	J
	UNKNOWN	9.86	26.210	J
	UNKNOWN	10.53	20.230	J
556-67-2	CYCLOTETRASILOXANE, OCTAMETHYL-	16.09	6.760	NJ
	BRANCHED ALKANE	16.87	5.110	J
	LABORATORY ARTIFACT	19.34	9.670	J

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Volatile Analysis Data - EE01K
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE01K

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	8.32	29.240	J
	UNKNOWN	8.78	21.620	J
	UNKNOWN	9.20	13.010	J
	UNKNOWN	9.73	25.090	J
	UNKNOWN	10.54	19.680	J
	UNKNOWN	11.24	8.400	J
556-67-2	CYCLOTETRASILOXANE, OCTAMETHYL-	16.06	26.960	NJ

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Volatile Analysis Data - VHBLKTT
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
541-05-9	CYCLOTRISILOXANE, HEXAMETHYL-	17.74	7.660	NJ

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Volatile Analysis Data - VBLKRP
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
7446-09-5	SULFUR DIOXIDE	3.06	71.760	NJ
	LABORATORY ARTIFACT	16.36	31.210	J
	LABORATORY ARTIFACT	18.12	112.000	J
	LABORATORY ARTIFACT	19.69	20.210	J

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Volatile Analysis Data - EE01Z
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	8.31	17.860	J
	UNKNOWN	8.76	13.110	J
	UNKNOWN	9.19	8.510	J
	UNKNOWN	9.69	14.610	J
	UNKNOWN	10.52	13.800	J

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Volatile Analysis Data - EE020
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	8.33	9.990	J
	UNKNOWN	8.84	9.680	J
	UNKNOWN	9.14	0.000	
	UNKNOWN	9.75	7.330	J
	UNKNOWN	10.56	9.320	J
541-05-9	CYCLOTRISILOXANE, HEXAMETHYL-	13.49	6.370	NJ
556-67-2	CYCLOTETRASILOXANE, OCTAMETHYL-	16.09	22.140	NJ
	LABORATORY ARTIFACT	19.34	13.780	J

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Volatile Analysis Data - VELKSJ
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K
LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	14.09	2848.000	J
	LABORATORY ARTIFACT	14.18	1050.000	J

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Volatile Analysis Data - VELKSX
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K
LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	14.09	22.79[illegible]	J
	LABORATORY ARTIFACT	14.18	8.400	J

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Volatile Analysis Data - EE01Q
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE01K
LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	CYCLIC ALKANE	10.51	32860.000	J
	CYCLIC ALKANE	12.01	58730.000	J
	CYCLIC ALKANE	13.20	30660.000	J
	BRANCHED ALKANE	13.40	51020.000	J
	BRANCHED ALKANE	13.55	42800.000	J
	CYCLIC ALKANE	13.80	66610.000	J
	CYCLIC ALKANE	13.99	43800.000	J
	CYCLIC ALKANE	14.16	49180.000	J
	CYCLIC ALKANE	14.70	72380.000	J
	CYCLIC ALKANE	14.75	75920.000	J
	UNKNOWN ALCOHOL	14.85	26070.000	J
	BRANCHED ALKANE	14.91	23340.000	J
	UNKNOWN	15.42	32250.000	J
	CYCLIC ALKANE	15.67	43360.000	J
	UNKNOWN	15.89	87070.000	J
	UNKNOWN	15.96	26300.000	J
	UNKNOWN	16.02	39470.000	J
	UNKNOWN ALKENE	16.31	39180.000	J
611-14-3	BENZENE, 1-ETHYL-2-METHYL-	16.42	60610.000	NJ
108-67-8	BENZENE, 1,3,5-TRIMETHYL-	16.48	83100.000	NJ
611-14-3	BENZENE, 1-ETHYL-2-METHYL-	16.66	37600.000	NJ
108-67-8	BENZENE, 1,3,5-TRIMETHYL-	16.80	71120.000	NJ
	SUBSTITUTED BENZENE	16.98	70940.000	J
527-84-4	BENZENE, 1-METHYL-2-(1-METHYLETHYL)-	17.04	28360.000	NJ
526-73-8	BENZENE, 1,2,3-TRIMETHYL-	17.16	53710.000	NJ
1074-43-7	BENZENE, 1-METHYL-3-PROPYL-	17.31	61670.000	NJ
527-84-4	BENZENE, 1-METHYL-2-(1-METHYLETHYL)-	17.35	58460.000	NJ
493-02-7	NAPHTHALENE, DECAHYDRO-, TRANS-	17.46	52190.000	NJ
135-98-8	BENZENE, (1-METHYLPROPYL)-	17.54	32730.000	NJ
95-93-2	BENZENE, 1,2,4,5-TETRAMETHYL-	17.63	56060.000	NJ
1758-88-9	BENZENE, 2-ETHYL-1,4-DIMETHYL-	17.69	39040.000	NJ
	SUBSTITUTED BENZENE	17.80	68420.000	J
	SUBSTITUTED BENZENE	17.86	40730.000	J
	UNKNOWN	18.00	37170.000	J
	UNKNOWN	18.06	38410.000	J
95-93-2	BENZENE, 1,2,4,5-TETRAMETHYL-	18.11	34980.000	NJ
	SUBSTITUTED BENZENE	18.16	37490.000	J
2958-76-1	NAPHTHALENE, DECAHYDRO-2-METHYL-	18.22	35730.000	NJ
	SUBSTITUTED BENZENE	18.44	40890.000	J
99-87-6	BENZENE, 1-METHYL-4-(1-METHYLETHYL)-	18.55	64820.000	NJ
	UNKNOWN	18.81	32750.000	J
	SUBSTITUTED BENZENE	18.89	39060.000	J

FILE NAME: EE01K.SDG DATE: 11/22/2000 TIME: 09:31 CADRE99 PAGE: 3

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)
H	Sample result is estimated and biased high.
L	Sample result is estimated and biased low.

Case Number : 28678 SDG Number: EE01K
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

results of the diluted analysis should be considered the sample's analyte concentration.

Beta-BHC, delta-BHC, Aldrin, alpha-Chlordane and gamma-Chlordane exceeded the instrument's calibration range in pesticide sample EE01N. For any analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration.

Endrin ketone exceeded the instrument's calibration range in pesticide sample EE01Q. For any analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration.

Alpha-BHC and Heptachlor exceeded the instrument's calibration range in pesticide sample EE01W. For any analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration.

4,4'-DDE, Endrin ketone, alpha-Chlordane and gamma-Chlordane exceeded the instrument's calibration range in pesticide sample EE01Y. For any analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration.

Endrin ketone and Aroclor-1254 exceeded the instrument's calibration range in pesticide sample EE022. For any analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration.

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: December 8, 2000

Case Number : 28678 SDG Number: EE01K
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

EE020
alpha-BHC, delta-BHC, Aldrin, Dieldrin, 4,4'-DDD, Endrin ketone, Endrin aldehyde, alpha-Chlordane, gamma-Chlordane

EE022
beta-BHC, Endosulfan I, Dieldrin, Endosulfan sulfate, Methoxychlor, Endrin aldehyde

EE022DL
Dieldrin, Endosulfan II, Endosulfan sulfate, Endrin aldehyde, Aroclor-1254

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

Samples arrived at the laboratory with a temperature of 8°C.

One sample tag for sample EE01N was labeled as EE01M.

Low level volatile samples EE01N and EE01X were analyzed using a reduced sample weight of 1 gram rather than 5 grams. This procedure increased the CRQL by a factor of 5.

Medium level volatile sample EE01Q was analyzed using a reduced aliquot volume of 25 μL rather than 100 μL. This procedure increased the CRQL by a factor of 4.

bis(2-ethylhexyl)phthalate exceeded the instrument's calibration range in semivolatile samples EE01L and EE01X. For any analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration.

Medium level semivolatile sample EE01Q was analyzed using a concentrated extract volume of 1500 μL rather than 500 μL. This procedure increased the CRQL by a factor of 3.

2-Methylnaphthalene exceeded the instrument's calibration range in semivolatile sample EE01S. For any analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration.

Phenol and 2-Methylnaphthalene exceeded the instrument's calibration range in semivolatile sample EE01W. For any analyte that exceeded the calibration range in the original sample analysis; the

Case Number : 28678 SDG Number: EE01K
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

EE01S
beta-BHC, Aldrin, Heptachlor epoxide, Endrin, 4,4'-DDD, Endosulfan sulfate, Endrin ketone, Endrin aldehyde, gamma-Chlordane

EE01T
beta-BHC, Aldrin, Heptachlor epoxide, Endrin, 4,4'-DDD, Endosulfan sulfate, Endrin ketone, Endrin aldehyde, alpha-Chlordane, gamma-Chlordane

EE01TDL
beta-BHC, Aldrin, Endrin, Endosulfan sulfate, Endrin ketone, Endrin aldehyde, gamma-Chlordane

EE01W
alpha-BHC, Heptachlor, Aldrin, Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endrin, 4,4'-DDT, Endrin ketone

EE01WDL
alpha-BHC, gamma-BHC (Lindane), Heptachlor, 4,4'-DDE

EE01X
gamma-BHC (Lindane), Endrin, 4,4'-DDD, Endrin aldehyde

EE01Y
alpha-BHC, Aldrin, Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endrin, 4,4'-DDD, Endosulfan sulfate, Endrin ketone, Endrin aldehyde, alpha-Chlordane

EE01YDL
beta-BHC, Aldrin, Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endrin, 4,4'-DDD, Endosulfan sulfate, Methoxychlor, Endrin ketone, alpha-Chlordane

EE01YMS
alpha-BHC, gamma-BHC (Lindane), Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endrin, 4,4'-DDD, Endosulfan sulfate, Endrin ketone, alpha-Chlordane

EE01YMSD
alpha-BHC, gamma-BHC (Lindane), Aldrin, Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Endrin ketone, Endrin aldehyde, alpha-Chlordane

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: December 8, 2000

Case Number : 28678 SDG Number: EE01K
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

EE01YDL
beta-BHC, Aldrin, Heptachlor epoxide, Dieldrin, Endrin, 4,4'-DDD, Endosulfan sulfate, Methoxychlor

EE01YMS
alpha-BHC, Heptachlor epoxide, Endosulfan sulfate

EE01YMSD
alpha-BHC, Endosulfan II

EE020
alpha-BHC, delta-BHC, Aldrin, Dieldrin, Endrin, 4,4'-DDD, 4,4'-DDT, Methoxychlor, Endrin ketone, Endrin aldehyde, alpha-Chlordane, gamma-Chlordane

EE022
beta-BHC, Endosulfan I

EE022DL
Dieldrin, Endosulfan II, Endosulfan sulfate, Endrin aldehyde

The following pesticide samples have analytes for which the percent difference between column results exceeds primary criteria. Hits are qualified "J".

EE01L
gamma-BHC (Lindane), Aldrin, Dieldrin, 4,4'-DDE, Endrin, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Methoxychlor, alpha-Chlordane

EE01N
beta-BHC, delta-BHC, Aldrin, Dieldrin, Endrin, Endosulfan II, 4,4'-DDD, 4,4'-DDT, Endrin ketone, alpha-Chlordane

EE01Q
delta-BHC, Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, Endrin ketone, Endrin aldehyde, alpha-Chlordane, gamma-Chlordane

EE01QDL
Heptachlor epoxide, 4,4'-DDE, Endrin, 4,4'-DDD, Endosulfan sulfate, Endrin ketone, Endrin aldehyde

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: December 8, 2000

Case Number : 28678 SDG Number: EE01K
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

EE01YMSD
4-Methylphenol, Naphthalene, Fluorene, Anthracene, Fluoranthene, Benzo(a)anthracene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EE020
Pyrene, Chrysene, bis(2-Ethylhexyl)phthalate

EE021
bis(2-Ethylhexyl)phthalate

EE022
Phenol, 2-Methylphenol, 4-Methylphenol, Naphthalene, Phenanthrene, Anthracene, Carbazole, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

EE01L
gamma-BHC (Lindane), Aldrin, Dieldrin, 4,4'-DDE, Endrin, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Methoxychlor, Endrin aldehyde

EE01Q
Heptachlor epoxide, 4,4'-DDE, Endrin, Endosulfan II, gamma-Chlordane

EE01QDL
Heptachlor epoxide, 4,4'-DDE, Endrin, 4,4'-DDD, Endosulfan sulfate, Endrin ketone, Endrin aldehyde

EE01TDL
Aldrin, Endrin, Endosulfan sulfate, Endrin ketone, alpha-Chlordane

EE01X
gamma-BHC (Lindane), Aldrin, Endrin, 4,4'-DDD, Endrin aldehyde

EE01Y
alpha-BHC, gamma-BHC (Lindane)

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: December 8, 2000

Case Number : 28678 SDG Number: EE01K
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

EE01SDL
Phenol, 2-Methylphenol, 4-Methylphenol, 2,4-Dimethylphenol, Naphthalene, Dibenzofuran, Fluorene, Phenanthrene, Pyrene, Chrysene, Benzo(a)pyrene, Benzo(g,h,i)perylene

EE01T
Phenol, 2-Methylphenol, 4-Methylphenol, 2,4-Dimethylphenol, 1,1'-Biphenyl, Dibenzofuran, Fluorene, Phenanthrene, Anthracene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EE01W
2-Methylphenol, 1,1'-Biphenyl, Acenaphthene, Anthracene, Carbazole, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EE01WDL
Naphthalene, 1,1'-Biphenyl, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Carbazole, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(a)pyrene, Dibenz(a,h)anthracene

EE01X
4-Methylphenol, 2-Methylnaphthalene, Fluorene, Phenanthrene, Fluoranthene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EE01XDL
Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene

EE01Y
Phenol, 2-Methylphenol, 4-Methylphenol, Acenaphthene, Anthracene, Fluoranthene, Benzo(a)anthracene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EE01YMS
4-Methylphenol, Anthracene, Fluoranthene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: December 8, 2000

Case Number : 28678 SDG Number: EE01K
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

EE01L

2-Methylnaphthalene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

EE01LDL

Acenaphthene, Fluorene, Phenanthrene, Anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

EE01N

2-Methylphenol, 2,4-Dimethylphenol, 1,1'-Biphenyl, Acenaphthene, Fluorene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EE01NMS

2-Methylphenol, Naphthalene, 1,1'-Biphenyl, Pentachlorophenol, Phenanthrene, Anthracene, Carbazole, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EE01NMSD

2-Methylphenol, 4-Methylphenol, Naphthalene, 1,1'-Biphenyl, Fluorene, Pentachlorophenol, Phenanthrene, Anthracene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EE01Q

2-Methylnaphthalene, Fluorene, Phenanthrene, Benzo(b)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EE01R

2-Methylnaphthalene

EE01S

2,4-Dimethylphenol, 1,1'-Biphenyl, Acenaphthene, Fluorene, Anthracene, Carbazole, Fluoranthene, Pyrene, Benzo(a)anthracene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: December 8, 2000

Case Number : 28678 SDG Number: EE01K
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

EE01QMS, EE01QMSD
Isopropylbenzene

EE01R
2-Butanone, Cyclohexane, Benzene, Toluene, Xylenes (total)

EE01T, EE01W, EE020
Tetrachloroethene

EE01X
2-Butanone

EE01Y
Methylcyclohexane, Toluene, Xylenes (total)

EE01YMS
Cyclohexane Methylcyclohexane, Ethylbenzene

EE01YMSD
Methylcyclohexane

EE01Z
Toluene, Tetrachloroethene

EE022
Cyclohexane, Benzene, Methylcyclohexane, Toluene, Tetrachloroethene

VBLKRP
Methylene Chloride

VBLKRS, VBLKRT
Acetone, Methylene Chloride

VBLKSJ, VBLKSX
Acetone, 2-Hexanone, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: December 8, 2000

Case Number : 28678 SDG Number: EE01K
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

and non-detects are qualified "R" because the recovery was less than 10%.

7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as either field blanks or field duplicates. Results are not qualified based upon the results of the field blank or field duplicates.

8. INTERNAL STANDARDS

No problems found for this qualification.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

EE01K
Acetone, Methyl Acetate, Toluene, Tetrachloroethene

EE01L
Chloroform, Cyclohexane, Benzene, Methylcyclohexane, Toluene, Xylenes (total)

EE01M
Methylcyclohexane, Toluene

EE01N
Toluene, Ethylbenzene, Styrene, Isopropylbenzene

EE01P, EE01S, EE021
2-Butanone, Toluene

EE01Q
Benzene, Toluene, Isopropylbenzene

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: December 8, 2000

Case Number : 28678 SDG Number: EE01K
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

The relative percent difference (RPD) between the following semivolatile matrix spike and matrix spike duplicate recoveries is outside criteria.

EE01NMS, EE01NMSD
Phenol, Pentachlorophenol

EE01YMS, EE01YMSD
Acenaphthene, Pyrene

The following semivolatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria.

EE01NMS
Phenol, Pentachlorophenol

EE01NMSD
Phenol, N-Nitroso-di-n-propylamine, Pentachlorophenol, Pyrene

EE01YMSD
Pyrene

The presence of Acenapthene and Pyrene in the unspiked sample, EE01Y, is qualified "J" and non-detects are flagged "UJ". The presence of N-Nitroso-di-n-propylamine and Pyrene in the unspiked sample, EE01N, is qualified "J" and non-detects are flagged "UJ". The presence of Phenol and Pentachlorphenol in the unspiked sample, EE01N, is qualified "J" and non-detects are qualified "R" because the recovery was less than 10%.

The relative percent difference (RPD) between the following pesticide matrix spike and matrix spike duplicate recoveries is outside criteria.

EE01YMS, EE01YMSD
Aldrin, Endrin

The following pesticide matrix spike/matrix spike duplicate samples have percent recovery outside criteria.

EE01YMS, EE01YMSD
Aldrin, Dieldrin, Endrin

The presence of Aldrin, Dieldrin and Endrin in the unspiked sample, EE01Y, is qualified "J"

Case Number : 28678 SDG Number: EE01K
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

The following pesticide samples have surrogate percent recoveries which exceed the upper limit of the criteria window. Hits are qualified "J" and non-detects are not flagged.

EE01N, EE01S, EE01T, EE01W, EE01X, EE01Z, EE020, EE022

The following undiluted pesticide samples have surrogate percent recoveries of less than 10%. Hits are qualified "J" and non-detects are qualified "R".

EE01W

The following diluted pesticide samples have surrogate percent recoveries of less than 10%. Hits and non-detects are not qualified.

EE01NDL

The following diluted pesticide samples have surrogate percent recoveries outside the lower limit of the criteria window, but greater than 10%. Hits and non-detects are not qualified.

EE01Q

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The relative percent difference (RPD) between the following volatile matrix spike and matrix spike duplicate recoveries is outside criteria.

EE01YMS, EE01YMSD
Toluene

The following volatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria.

EE01QMS, EE01QMSD
Benzene

EE01YMS
Toluene

The presence of Toluene in the unspiked sample, EE01Y, is qualified "J" and non-detects are flagged "UJ". The presence of Benzene in the unspiked sample, EE01Q, is qualified "J" and non-detects are flagged "UJ".

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: December 8, 2000

Case Number : 28678 SDG Number: EE01K
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

Methylene Chloride
EE01R

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" or "UJ" and non-detects are not flagged.

Acetone
EE01N, EE01Q, EE01QMS, EE01QMSD, EE01W, VHBLKTT

Methylene Chloride
EE01L, EE01N, EE01S, EE01T, EE01W, EE01X, EE01Y, EE01YMSD, EE020, EE022

The blank associated with the following semivolatile sample was qualified "R" during a previous qualification.

EE01NMS, EE01NMSD
2,4-Dinitrophenol

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following semivolatile method blank has a base/neutral surrogate recovery outside criteria. Hits and non-detects are not qualified unless two or more surrogates, within the same fraction, are outside the criteria window.

SBLKUM

The following semivolatile sample has an acid surrogate recovery outside criteria. Hits and non-detects are not qualified unless two or more surrogates, within the same fraction, are outside the criteria window.

EE01NMSD, SBLKUM

The following diluted pesticide samples have surrogate percent recoveries which exceed the upper limit of the criteria window. Hits and non-detects are not flagged.

EE01NDL, EE01Q, EE01QDL, EE01WDL, EE01Y, EE01YDL, EE01YMS, EE01YMSD, EE022DL

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: December 8, 2000

Case Number : 28678 SDG Number: EE01K
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

EE01Q, SBLKTK
2,4-Dinitrophenol

The following semivolatile samples are associated with a continuing calibration relative response factor (RRF50) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

2,4-Dinitrophenol
EE01NMS, EE01NMSD, SBLKUM

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Nitrobenzene, Hexachlorobutadiene, 4-Chlorophenyl-phenylether, 3,3'-Dichlorobenzidine, Benzo(k)fluoranthene
EE01Q, SBLKTK

Hexachlorocyclopentadiene
EE01Q, EE01SDL, EE01T, EE01XDL, EE01Z, EE021, EE022, SBLKTK

2,4-Dinitrophenol
EE01XDL

4-Nitrophenol
EE01NMS, EE01NMSD, EE01Q, SBLKTK, SBLKUM

4-Nitroaniline, Carbazole
EE01L, EE01LDL, EE01NMS, EE01NMSD, EE01R, EE01X, EE01XDL, EE01Y, EE01YMS, EE01YMSD, EE020, SBLKTT, SBLKUM

4,6-Dinitro-2-methylphenol
EE01NMS, EE01NMSD, SBLKUM

4. BLANKS

The following volatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Hits are qualified "U" or "UJ" and non-detects are not flagged.

Acetone
EE01L, EE01R

Case Number : 28678 SDG Number: EE01K
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

1. HOLDING TIME

No problems found for this qualification.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems found for this qualification.

3. CALIBRATION

The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Trichlorofluoromethane
EE01Q, EE01QMS, EE01QMSD, VBLKSJ, VBLKSX, VHBLKTT

Acetone, Methyl Acetate
EE01K, EE01L, EE01M, EE01N, EE01P, EE01R, EE01S, EE01T, EE01W, EE01X, EE01Y, EE01YMS, EE01YMSD, EE01Z, EE020, EE021, EE022, VBLKRP, VBLKRS, VBLKRT

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Dichlorodifluoromethane, Acetone
EE01Q, EE01QMS, EE01QMSD, VBLKSJ, VBLKSX, VHBLKTT

2-Butanone
EE01K, EE01M, EE01P, EE01Q, EE01QMS, EE01QMSD, EE01S, EE01Z, EE020, EE021, EE022, VBLKRP, VBLKSJ, VBLKSX, VHBLKTT

2-Hexanone
EE01N, EE01Q, EE01QMS, EE01QMSD, EE01T, EE01W, EE01X, EE01Y, EE01YMS, EE01YMSD, VBLKRS, VBLKSJ, VBLKSX, VHBLKTT

The following semivolatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: December 8, 2000

Case Number : 28678 SDG Number: EE01K
Site Name: CLARK OIL (IL) Laboratory: COMPUCHEM

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Sixteen (16) soil samples, numbered *EE01K* through *EE01N, EE01P* through *EE01T, EE01W* through *EE01Z* and *EE020* through *EE022* were collected on *November 2, 2000.* The lab received the samples on *November 3, 2000* in good condition. All samples were analyzed for the full list of organic analytes. All were analyzed according to CLP SOW *OLM04.2* 5/99.

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: December 8, 2000

DEC 1 3 2000

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: _____

SUBJECT: Review of Data
Received for Review on **November 22, 2000**

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: **IEPA**

We have reviewed the data for the following case:

SITE NAME: **CLARK OIL (IL)**

CASE NUMBER: **28678** SDG NUMBER: **EE01K**

Number and Type of Samples: **16 SOILS**

Sample Numbers: **EE01K - EE01N, EE01P - EE01T, EE01W - EE01Z, EE020 - EE022**

Laboratory: **COMPUCHEM** Hrs. for Review: _____

Following are our findings:

RECEIVED
DEC 1 5 2000
IEPA-BOL-PCHS

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

DATE: December 13, 2000

TO: IEPA
1021 North Grand Avenue East
Springfield, IL 62702

Attn: Bob Casper

SITE NAME: CLARK OIL

CASE NO	LAB	NO # OF SAMPLES	SDG	MATRIX
28678	COMPUCHEM	16	EE01K	SOIL

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
CHICAGO, IL 60605

RECEIVED
DEC 15 2000
IEPA-BOL-FSRS

Sent By: Eva M. Dixon, ESAT

USEPA Contract Laboratory Program
Generic Traffic Report/Chain-of-Custody Record

Case No. 28678
DAS No.
SDG No. EE01K

L

ıte Shipped: 11/2/00
ırrier Name: Fed Ex
ırbill: 3497988045
hipped to:
berty Analytical
01 Madison Avenue
ary NC 27513
19) 379-4080

Date Received/Received by: 11/3/00 [illegible]
Lab Contract No.: 68W99870 Unit Price: 467.00

Transfer To:
Date Received/Received By:
Contract No.: Price:

Sampler (Signature) Mark Wagner 11/2/00

Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:

AMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
.01K	Soil/Sediment / Mark Wagner	L/G	Dr (21)	59636 (Ice Only) (1)	X109	11/02/2000 08:15		Good
.01L	Soil/Sediment / Mark Wagner	L/G	Dr (21)	59640 (Ice Only) (1)	X110	11/02/2000 09:25		
:01M	Soil/Sediment / Mark Wagner	L/G	Dr (21)	59644, 59648 (2)	X111	11/02/2000 09:35		
:01P	Soil/Sediment / Mark Wagner	L/G	Dr (21)	59652 (Ice Only) (1)	X113	11/02/2000 11:05		
E01Q	Soil/Sediment / Mark Wagner	L/G	Dr (21)	5-59656 (Ice Only) (1)	X114	11/02/2000 12:00		
E01R	Soil/Sediment / Mark Wagner	L/G	Dr (21)	59660 (Ice Only) (1)	X115	11/02/2000 12:15		
E01S	Soil/Sediment / Mark Wagner	L/G	Dr (21)	59664 (Ice Only) (1)	X116	11/02/2000 13:25		
E01T	Soil/Sediment / Mark Wagner	L/G	Dr (21)	5-59668 (Ice Only) (1)	X117	11/02/2000 13:25		
E01W	Soil/Sediment / Mark Wagner	L/G	Dr (21)	5-59672 (Ice Only) (1)	X118	11/02/2000 14:20		
E01X	Soil/Sediment / Mark Wagner	L/G	Dr (21)	5-59676 (Ice Only) (1)	X119	11/02/2000 14:35		
E01Y	Soil/Sediment / Mark Wagner	L/G	Dr (21)	59680 (Ice Only) (1)	X120	11/02/2000 15:40		
E01Z	Soil/Sediment / Mark Wagner	L/G	Dr (21)	59684 (Ice Only) (1)	X121	11/02/2000 15:50		
E020	Soil/Sediment / Mark Wagner	L/G	Dr (21)	59688 (Ice Only) (1)	X122	11/02/2000 16:50		
E021	Soil/Sediment	L/G	Dr (21)	5-59692 (1)	X123	11/02/2000 16:55		
E022	Soil/Sediment / Mark Wagner	L/G	Dr (21)	59696 (Ice Only) (1)	X124	11/02/2000 17:10		SDG Final Sample

ORIGINAL

Shipment for Case Complete? Y	Sample(s) to be used for Laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number 47777 + 47773	Cooler Temperature Upon Receipt: 8° no Temp. blk.	
Analysis Key Below: Dr=Dry Weight	Concentration: L = Low M = Low/Medium H = High	Type/Designate: Composite = C Grab = G		Custody Seal Intact?	Shipment Iced?

PR provides preliminary results Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr, Reston, VA. 20191-3436 Phone: 703/264-9348 Fax 703/264-9222

TR Number 05-405012729-110200-0002

F2V4.0

USEPA Contract Laboratory Program
Organic Traffic Report

9:25

Case No. 28678
DAS No.
SDG No. EE01K

22

Shipped: 11/2/00 r Name: Fed Ex : 3497988045 ped to: y Analytical Madison Avenue NC 27513 379-4080	Date Received/Received by: 11/3/00 MiSt Lab Contract No.: 68W99070 Unit Price: 4607 Transfer To: Date Received/Received By: Contract No.: Price:	Sampler (Signature) Mark Wagner 11/2/00 Relinquished By: Date / Time Received By: Relinquished By: Date / Time Received By: Relinquished By: Date / Time Received By:

ANIC PLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
T	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	5-59666 (Ice Only), 5-59667 (Ice Only) (2)	X117	11/02/2000 13:25	MEE01T	Good
W	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	5-59670 (Ice Only), 5-59671 (Ice Only) (2)	X118	11/02/2000 14:20	MEE01W	
1X	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	5-59674 (Ice Only), 5-59675 (Ice Only) (2)	X119	11/02/2000 14:35	MEE01X	
1Y	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	59678 (Ice Only), 59679 (Ice Only) (2)	X120	11/02/2000 15:40	MEE01Y	
1Z	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	59682 (Ice Only), 59683 (Ice Only) (2)	X121	11/02/2000 15:50	MEE01Z	
20	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	59686 (Ice Only), 59687 (Ice Only) (2)	X122	11/02/2000 16:50	MEE020	
021	Soil/Sediment	L/G	BNA (21), PEST (21), VOA (21)	5-59690 (Ice Only), 5-59691 (Ice Only) (2)	X123	11/02/2000 16:55	MEE021	
022	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	59694 (Ice Only), 59695 (Ice Only) (2)	X124	11/02/2000 17:10	MEE022	SDG Final Sample

ORIGINAL

Shipment for Case Complete? Y	Sample(s) to be used for Laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number 47774 47773	Cooler Temperature Upon Receipt: 8° No Temp Blk
Analysis Key Below: BNA=CLP TCL Semivolatiles, PEST=CLP TCL Pesticide/PCBs, VOA=CLP TCL Volatiles	Concentration: L= Low M = Low/Medium H = High	Type/Designate: Composite = C Grab = G	Custody Seal Intact?	Shipment Iced?

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr. Reston, VA. 20191-3436 Phone: 703/264-9348 Fax 703/264-9222

Number: 05-40501272 9-110200-0001 F2V4.0 Page 2 of 2

USEPA Contract Laboratory Program
Organic Traffic Report

9:25

Case No. 28678
DAS No.
SDG No. EE01B, EE01K

te Shipped: 11/2/00 rrier Name: Fed Ex rbill# 3497988046 hipped to: berty Analytical 01 Madison Avenue ary NC 27513 919) 379-4080	Date Received/Received by: 11/3/00 M. Storm Lab Contract No.: 68W99070 Unit Price: 467 Transfer To: Date Received/Received By: Contract No.: Price:	Sampler (Signature) Mark Wagner 11/2/00 Relinquished By: Date / Time Received By: Relinquished By: Date / Time Received By: Relinquished By: Date / Time Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
EE01B	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21)	5-59603 (Ice Only) (1)	X101	11/01/2000 11:30	MEE01B	Good
EE01C	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21)	5-59607 (Ice Only) (1)	X102	11/01/2000 11:30	MEE01C	
EE01D	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21)	5-59610 (Ice Only) (1)	X103	11/01/2000 12:50	MEE01D	
EE01E	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21)	5-59614 (Ice Only) (1)	X104	11/01/2000 13:10	MEE01E	
EE01F	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21)	59618 (Ice Only) (1)	X105	11/01/2000 15:00	MEE01F	
EE01G	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21)	59622 (Ice Only) (1)	X106	11/01/2000 15:20	MEE01G	
EE01H	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21)	5-59626 (Ice Only) (1)	X107	11/01/2000 16:00	MEE01H	
EE01J	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21)	5-59630 (Ice Only) (1)	X108	11/01/2000 16:45	MEE01J	SDG Final Sample
EE01K	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	59634 (Ice Only), 59635 (Ice Only) (2)	X109	11/02/2000 08:15	MEE01K	
EE01L	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	59638 (Ice Only), 59639 (Ice Only) (2)	X110	11/02/2000 09:25	MEE01L	
EE01M	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	59642 (Ice Only), 59643 (Ice Only) (2)	X111	11/02/2000 09:35	MEE01M	
EE01N	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	59646 (Ice Only), 59647 (Ice Only) (2)	X112	11/02/2000 10:05	MEE01N	
EE01P	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	59650 (Ice Only), 59651 (Ice Only) (2)	X113	11/02/2000 11:05	MEE01P	
EE01Q	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	5-59654 (Ice Only), 5-59655 (Ice Only) (2)	X114	11/02/2000 12:00	MEE01Q	
EE01R	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	59658 (Ice Only), 59659 (Ice Only) (2)	X115	11/02/2000 12:15	MEE01R	
EE01S	Soil/Sediment / Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	59662 (Ice Only), 59663 (Ice Only) (2)	X116	11/02/2000 13:25	MEE01S	

COPY

Original EE01B MS 11/3/00

Shipment for Case Complete? Y	Sample(s) to be used for Laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number 47774+47773	Cooler Temperature Upon Receipt: 8° no Temp Blk
Analysis Key Below: BNA=CLP TCL Semivolatiles, PEST=CLP TCL Pesticide/PCBs, VOA=CLP TCL Volatiles	Concentration: L = Low M = Low/Medium H = High	Type/Designate: Composite = C Grab = G	Custody Seal Intact?	Shipment Iced?

PR pre... preliminary results. Requests for preliminary results will increase analytical costs.
Send ... Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr. Reston, VA. 20191-3436 Phone. 703/264-9348 Fax 703/264-9212

...012729-110200-0001

FIV4.0

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

NOV 2 2 2000

SDG NARRATIVE
CASE #28678
SDG #EE01K
CONTRACT # 68W99070

SAMPLE IDENTIFICATIONS: EE01K EE01L EE01M EE01N EE01P EE01Q EE01R EE01S EE01T EE01W EE01X EE01Y EE01Z EE020 EE021 EE022

The sixteen soil samples listed above were received intact in Encore samplers, at 8 degrees C, with documentation, in sealed shipping containers, on November 03, 2000. All samples were submitted for volatile, semivolatile and pesticide-PCB analysis. The samples were prepared and analyzed following Contract Laboratory Protocol(CLP) Statement of Work(SOW), document OLM04.2. This portion of the SDG narrative deals with the volatile fractions only. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for Case # 28678, SDG # EE01K are included in the sample data sections. Temperature blanks were not received in all coolers however the procedure outlined for temperature measurement is explained by a quality assurance notice in the narrative section. One of the tags for EE01N was labeled as EE01M, SMO was notified of this discrepancy, and a copy of the e-mail accompanies this narrative.
Analysis holding time requirements were met for all of these samples, and sample dry weight values ranged from 4 to 29 percent. The Target Compound List(TCL) analytes acetone, methylene chloride, 2-butanone, cyclohexane, methylcyclohexane, ethylbenzene, and xylenes were the most frequently identified above the Contract Required Quantitation Limit(CRQL). Based on odor, samples EE01Q, EE01N, and EE01X were prepared and analyzed as medium level samples, however only sample EE01Q met criteria of having TCL analytes above the CRQL. EE01Q was also diluted 4X due to high levels of methylcyclohexane, and xylenes, and we have only reported the one diluted medium level analysis. Samples EE01N and EE01X were reanalyzed as low level soils at 1g, however only EE01N met dilution criteria. Sample EE01X was not reanalyzed at a lesser dilution due to the very high levels of Tentatively Identified Compounds(TICs) which could cause instrument contamination and downtime.

Numerous reportable TICs were present in EE01M, EE01N, EE01Q, EE01X, EE01Y, and EE022 and were generally characterized as various substituted benzenes, substituted naphthalenes, PAHs, and peaks of unknown characterization.
All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The system monitoring compounds (SMCs) met recovery criteria in the analyses of these samples, and all of the internal standards met retention time and response criteria in the analyses of these samples.
The associated method blanks met all quality control criteria, and did not contain any target analytes above the CRQL. The medium level method blank VBLKSJ was also requantitated as a water blank for reference against the storage blank also analyzed as a water in the same tune batch as the medium level samples. It was necessary to rename this blank as VBLKSX to avoid disk discrepancy errors, so only VBLKSJ will appear on the sample run log at time 14:18.
The asssociated storage blank met all QC criteria, and also did not contain any TCL analytes above the CRQL.

Low level duplicate matrix spikes were generated from the original EE01Y, and all QC precision and accuracy criteria were met for these low level matrix spikes with exceptions. Toluene exceeded recovery limits in the matrix spike, and the advisory RPD was exceeded for this analyte.

The medium level matrix spikes generated from EE01Q met all QC precision and accuracy criteria with exceptions. Spike recoveries fell below QC limits for benzene in both matrix spikes. As no more Encores were left for extraction of the medium level spikes, the matrix spikes should have been aliquoted from the dry weight jar. Due to an operator oversight 25ul aliquots(4X dilutions) were removed from the medium level extract bottle for EE01Q and spiked into 5mls of water with the addition of the surrogates and spiking compounds. This was not discovered until holding times had expired. The laboratory has instituted corrective action by instructing analysts to use aliquots from the dry weight jar when no Encores are available, and that the TCL spiking compounds are added to the methanol during extraction.

Manual quantitations were performed on the process files in some of the the associated initial, and continuing calibration(s) and in all samples except EE01Z, EE01P, EE01S, EE01T, EE01W, EE01Y, EE01X, EE01Q, EE01QMS, and EE01QMSD. The reasons have been coded with explanations provided in the notice included in the narrative section of this SDG.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Roy Sutton
Case Reviewer
November 16, 2000

COMPUCHEM

A division of Liberty Analytical Corporation
501 Madison Ave.
Cary, NC 27513

SDG NARRATIVE

CASE #28678
SDG #EE01K
CONTRACT #68W99070

SAMPLE IDENTIFICATIONS:

EE01K EE01L EE01M EE01N EE01P EE01Q EE01R EE01S
EE01T EE01W EE01X EE01Y EE01Z EE020 EE021 EE022

This portion of the SDG narrative deals with the semivolatile fractions for the sixteen samples above only. For the receiving information associated with these samples, please refer to the volatile SDG narrative.

All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices for Case #28678, SDG #EE01K are included in the sample data sections.

SEMIVOLATILE

The semivolatile fractions were extracted and analyzed within the required holding time. The percent moisture values for the samples ranged from 4% to 29% and the pH values ranged from 6.9 to 8.5.

One to nine Target Compound List (TCL) analytes were detected with concentrations above the Contract Required Quantitation Limit (CRQL) in nine of the samples. These analytes were pyrene, chrysene, bis(2-ethylhexyl)phthalate, phenol, 4-methylphenol, naphthalene, 2-methylnaphthalene, phenanthrene, benzo(a)anthracene, benzo(a)pyrene, 2-methylphenol, dibenzofuran, benzo(g,h,i)perylene and fluorene.

In the continuing calibration standards associated with these samples, benzo(b)fluoranthene and benzo(k)fluoranthene were chromatographically resolved and were identified as separate peaks with different retention times. However, in samples EE01L, EE01N, EE01S, EE01T, EE01W, EE01X and EE01Y, the isomers could not be chromatographically resolved. This is indicated with "X" flags on the Form Is.

Two to thirty Tentatively Identified Compounds (TIC) were detected in the samples. Many of these TICs were assessed as unknowns, carboxylic acids, PAHs, thiophenes, naphthalenes, benzenes, indenes, disulfides and amides. Other TICs were detected and assessed as unknown alkanes in some of the samples. The TICs that were characterized as alkanes have been summarized on the Alkane Narrative Report that is located in the narrative section of the data

package. The TIC spectra for the alkanes are located in the data section for the individual samples.

In the initial undiluted analyses of EE01L, EE01S, EE01X and EE01W, the on-column amounts of one or more analytes exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration. The samples were reanalyzed diluted in order to bring the on-column amounts into range. The undiluted and diluted analyses of the samples have been reported and billed for.

Due to the results of a screen analysis, EE01T was analyzed at a 2x dilution. The screen Reconstructed Ion Chromatogram (RIC) is included in the sample data package immediately following the RIC for the sample's reportable run.

Due to the level of organic material present, as demonstrated by the number and concentrations of the TICs, EE01N, EE01Q and EE01W were extracted and analyzed as a Medium Level Solids. In the initial analysis of the medium level extract of EE01W the amounts of one or more analytes exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration. The extract was reanalyzed at a 2x dilution.

QC SUMMARY

All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The surrogates met recovery criteria for the semivolatile samples. The internal standards met area response and retention time criteria.

The low level duplicate matrix spikes met accuracy and precison criteria, with some exceptions. The recovery of pyrene was flagged as an outlier in the MSD and the relative percent difference values for acenaphthene and pyrene were flagged as outliers in the comparison of the duplicate matrix spikes.

Due to a scheduling error, the medium level duplicate matrix spikes were extracted outside of the required holding time. The medium level duplicate matrix spikes met accuracy and precision criteria for the spike compounds, with some exceptions. The recoveries of phenol and pentachlorophenol were flagged as outliers in the MS, the recoveries of phenol, n-nitroso-di-n-propylamine, pentachlorophenol and pyrene were flagged as outliers in the MSD and the relative percent difference values for phenol and pentachlorphenol were flagged as outliers in the comparison of the duplicate matrix spikes. The recovery of the surrogate 2-fluorophenol was flagged as an outlier in the MSD.

The associated blanks met contract required Quality Control criteria. The recovery of the surrogate 2-fluorobiphenyl was flagged as an outlier in SBLKUM.

In the analyses of the Initial and Continuing Calibration standards and samples, manual quantitations were performed. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature:

Patricia B. Hopkins

Patricia B. Hopkins
Data Analyst II
16 November 2000

Note: This report is paginated for reference and accountability in numerical sequence.

ALKANE NARRATIVE REPORT
Report date : 11/15/2000
SDG: EE01K

Client Sample ID: EE022 Lab Sample ID: EE01K-16 File ID: EE01K-16A56

Compound	RT	Est. Conc.	Q
Branched Alkane	16.87	5.11	J

Client Sample ID: EE01M Lab Sample ID: EE01K-3 File ID: EE01K-3A56

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	3.18	21.50	J
Branched Alkane	4.65	36.77	J
Straight-Chain Alkane	5.33	9.16	J
Unknown Alkane	7.22	17.66	J
Unknown Alkane	7.63	10.69	J
Unknown Alkane	9.95	15.23	J
Branched Alkane	16.59	6.48	J
Branched Alkane	17.11	7.03	J

Client Sample ID: EE01W Lab Sample ID: EE01K-10 File ID: EE01K-10A56

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	20.01	36.15	J
Branched Alkane	20.64	31.15	J
Straight-Chain Alkane	21.03	35.33	J

Client Sample ID: EE01Y Lab Sample ID: EE01K-12 File ID: EE01K-12A56

Compound	RT	Est. Conc.	Q
Branched Alkane	16.70	25.70	J
Cyclic Alkane	17.01	14.17	J
Branched Alkane	17.85	20.23	J
Branched Alkane	18.45	15.15	J
Branched Alkane	18.65	39.29	J
Cyclic Alkane	19.02	34.57	J
Branched Alkane	19.15	50.75	J
Cyclic Alkane	19.25	20.80	J
Cyclic Alkane	19.40	14.25	J
Unknown Alkane	19.54	37.29	J
Branched Alkane	20.07	64.62	J
Straight-Chain Alkane	20.88	47.97	J
Branched Alkane	21.11	19.04	J

Client Sample ID: EE01N Lab Sample ID: EE01K-4 File ID: EE01K-4DA56

Compound	RT	Est. Conc.	Q
Branched Alkane	10.45	771.2	J
Cyclic Alkane	14.02	733.3	J
Branched Alkane	14.35	2099	J
Branched Alkane	14.49	1470	J
Unknown Alkane	14.94	2229	J
Cyclic Alkane	15.23	2482	J
Branched Alkane	15.47	2757	J
Branched Alkane	15.85	5948	J

Branched Alkane	15.97	3247	J
Straight-Chain Alkane	16.32	10730	J
Branched Alkane	16.61	7514	J
Branched Alkane	16.81	2874	J
Branched Alkane	17.05	7874	J
Unknown Alkane	17.15	2933	J
Straight-Chain Alkane	17.44	13280	J
Unknown Alkane	18.41	11480	J
Branched Alkane	18.53	4412	J
Branched Alkane	19.03	3315	J
Unknown Alkane	19.25	1836	J

Client Sample ID: EE01X Lab Sample ID: EE01K-11 File ID: EE01K-11DA56

Compound	RT	Est. Conc.	Q
Cyclic Alkane	15.17	146.5	J
Branched Alkane	15.40	217.1	J
Unknown Alkane	16.44	134.7	J
Branched Alkane	16.53	1250	J
Branched Alkane	16.74	800.3	J
Branched Alkane	16.92	651.2	J
Cyclic Alkane	17.08	688.2	J
Cyclic Alkane	17.43	528.2	J
Unknown Alkane	17.66	1079	J
Cyclic Alkane	17.78	237.4	J
Branched Alkane	18.31	592.3	J
Branched Alkane	18.45	2734	J
Branched Alkane	18.68	262.6	J
Cyclic Alkane	18.83	2670	J
Branched Alkane	18.95	2614	J
Cyclic Alkane	19.75	756.7	J
Branched Alkane	19.87	1680	J
Unknown Alkane	20.11	1395	J
Branched Alkane	20.68	875.4	J
Cyclic Alkane	20.78	303.1	J

Client Sample ID: EE01L Lab Sample ID: EE01K-2 File ID: EE01K-2R4A56

Compound	RT	Est. Conc.	Q
Branched Alkane	4.67	32.37	J
Straight-Chain Alkane	5.35	10.04	J

Client Sample ID: EE01R Lab Sample ID: EE01K-7 File ID: EE01K-7R2A56

Compound	RT	Est. Conc.	Q
Branched Alkane	19.02	19.15	J

Client Sample ID: EE01Q Lab Sample ID: EE01K-6 File ID: EE01K-6B55

Compound	RT	Est. Conc.	Q
Cyclic Alkane	10.51	32860	J
Cyclic Alkane	12.01	58730	J
Cyclic Alkane	13.20	30660	J
Branched Alkane	13.40	51020	J
Branched Alkane	13.55	42800	J
Cyclic Alkane	13.80	66610	J
Cyclic Alkane	13.99	43800	J
Cyclic Alkane	14.16	48180	J

Cyclic Alkane	14.70	72380	J
Cyclic Alkane	14.75	75920	J
Branched Alkane	14.91	23340	J
Cyclic Alkane	15.67	43360	J

ALKANE NARRATIVE REPORT
Report date : 11/16/2000
SDG: EE01K

Client Sample ID: EE01K Lab Sample ID: EE01K-1 File ID: EE01K-1A

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	23.10	405.5	J
Unknown Alkane	23.69	310.4	J
Unknown Alkane	24.01	337.6	J
Straight-Chain Alkane	24.25	441.3	J
Unknown Alkane	24.83	242.6	J

Client Sample ID: EE01M Lab Sample ID: EE01K-3 File ID: EE01K-3A66

Compound	RT	Est. Conc.	Q
Unknown Alkane	23.66	85.62	J
Straight-Chain Alkane	24.22	202.0	J
Straight-Chain Alkane	24.79	191.9	J
Branched Alkane	25.42	122.7	J
Unknown Alkane	26.87	128.9	J

Client Sample ID: EE01S Lab Sample ID: EE01K-8 File ID: EE01K-8A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	14.59	741.5	J
Straight-Chain Alkane	16.56	1661	J
Straight-Chain Alkane	17.01	764.3	J
Straight-Chain Alkane	18.30	1153	J
Unknown Alkane	18.39	878.9	J
Straight-Chain Alkane	19.10	967.6	J
Straight-Chain Alkane	19.86	1563	J
Unknown Alkane	20.57	1719	J

Client Sample ID: EE01SDL Lab Sample ID: EE01K-8 File ID: EE01K-8DB66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	16.98	3483	JD
Branched Alkane	17.42	1724	JD
Branched Alkane	17.47	1370	JD
Straight-Chain Alkane	17.88	1887	JD
Cyclic Alkane	18.03	2492	JD
Unknown Alkane	18.35	2129	JD
Unknown Alkane	18.60	1833	JD
Straight-Chain Alkane	19.06	1447	JD
Straight-Chain Alkane	19.81	1425	JD
Straight-Chain Alkane	20.37	1571	JD
Straight-Chain Alkane	20.54	2647	JD

Client Sample ID: EE01T Lab Sample ID: EE01K-9 File ID: EE01K-9DB66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	14.57	876.5	J
Straight-Chain Alkane	15.60	1160	J
Branched Alkane	16.24	770.5	J
Straight-Chain Alkane	16.55	1785	J

9A

Branched Alkane	16.99	2430	J
Branched Alkane	17.19	1160	J
Straight-Chain Alkane	17.44	1333	J
Straight-Chain Alkane	17.90	1120	J
Cyclic Alkane	18.05	816.7	J
Straight-Chain Alkane	18.29	1399	J
Straight-Chain Alkane	18.38	1351	J
Unknown Alkane	19.09	652.8	J
Straight-Chain Alkane	19.83	625.0	J
Straight-Chain Alkane	20.54	845.0	J

Client Sample ID: EE021 Lab Sample ID: EE01K-15 File ID: EE01K-15B66

Compound	RT	Est. Conc.	Q
Unknown Alkane	24.81	86.31	J

Client Sample ID: EE022 Lab Sample ID: EE01K-16 File ID: EE01K-16B66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	19.83	1386	J
Unknown Alkane	20.37	1604	J
Unknown Alkane	20.54	2307	J
Straight-Chain Alkane	21.24	271.3	J
Straight-Chain Alkane	21.64	408.6	J
Straight-Chain Alkane	21.90	375.0	J
Unknown Alkane	22.52	269.7	J
Unknown Alkane	23.11	604.0	J
Straight-Chain Alkane	23.69	496.5	J
Unknown Alkane	24.03	389.7	J
Straight-Chain Alkane	24.25	341.6	J
Straight-Chain Alkane	24.84	376.7	J
Straight-Chain Alkane	26.94	851.0	J

Client Sample ID: EE01N Lab Sample ID: EE01K-4 File ID: EE01K-4A66

Compound	RT	Est. Conc.	Q
Cyclic Alkane	15.12	30460	J
Unknown Alkane	15.20	37700	J
Branched Alkane	16.27	30790	J
Straight-Chain Alkane	16.45	34050	J
Branched Alkane	16.98	78550	J
Cyclic Alkane	17.10	36910	J
Unknown Alkane	17.18	35370	J
Branched Alkane	17.49	53850	J
Branched Alkane	17.81	48540	J
Unknown Alkane	17.96	34350	J
Unknown Alkane	18.03	42960	J
Straight-Chain Alkane	18.35	54670	J
Unknown Alkane	18.60	54150	J
Branched Alkane	18.84	40120	J
Unknown Alkane	18.99	55540	J
Branched Alkane	19.37	34630	J
Unknown Alkane	19.79	26740	J
Unknown Alkane	19.96	28330	J

Client Sample ID: EE01W Lab Sample ID: EE01K-10 File ID: EE01K-10A66

Compound	RT	Est. Conc.	Q

Straight-Chain Alkane	13.49	640800	J
Cyclic Alkane	14.03	549800	J
Straight-Chain Alkane	14.61	64570	J
Cyclic Alkane	15.15	47140	J
Unknown Alkane	15.24	45600	J
Cyclic Alkane	15.47	26810	J
Straight-Chain Alkane	15.64	62490	J
Straight-Chain Alkane	16.59	63590	J
Branched Alkane	17.01	77480	J
Unknown Alkane	17.13	39500	J
Branched Alkane	17.20	35850	J
Straight-Chain Alkane	17.47	47010	J
Branched Alkane	17.52	46070	J
Unknown Alkane	17.83	37060	J
Branched Alkane	17.98	32140	J
Branched Alkane	18.05	38420	J
Straight-Chain Alkane	18.28	50650	J
Unknown Alkane	19.06	26330	J

Client Sample ID: EE01WDL Lab Sample ID: EE01K-10 File ID: EE01K-10DA6

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	12.33	291700	JD
Straight-Chain Alkane	13.46	37110	JD
Straight-Chain Alkane	14.56	74410	JD
Cyclic Alkane	15.12	37550	JD
Branched Alkane	15.21	48460	JD
Branched Alkane	15.27	31160	JD
Straight-Chain Alkane	15.58	75450	JD
Straight-Chain Alkane	16.53	74340	JD
Branched Alkane	16.97	90450	JD
Branched Alkane	17.09	47460	JD
Branched Alkane	17.15	42520	JD
Straight-Chain Alkane	17.42	65270	JD
Branched Alkane	17.48	61730	JD
Straight-Chain Alkane	17.86	48080	JD
Unknown Alkane	17.95	37340	JD
Cyclic Alkane	18.02	44590	JD
Straight-Chain Alkane	18.25	57300	JD
Branched Alkane	18.34	56260	JD
Unknown Alkane	18.58	44260	JD
Unknown Alkane	19.03	31790	JD

Client Sample ID: EE01Q Lab Sample ID: EE01K-6 File ID: EE01K-6JA70

Compound	RT	Est. Conc.	Q
Branched Alkane	17.25	128900	J
Unknown Alkane	18.60	135800	J

Client Sample ID: EE01L Lab Sample ID: EE01K-2 File ID: EE01K-2A66

Compound	RT	Est. Conc.	Q
Branched Alkane	16.97	4432	J
Unknown Alkane	17.88	1072	J
Unknown Alkane	18.36	1165	J
Straight-Chain Alkane	19.19	1074	J
Straight-Chain Alkane	19.83	1058	J
Straight-Chain Alkane	21.49	726.4	J
Straight-Chain Alkane	21.66	764.6	J

9C

Client Sample ID: EE01R Lab Sample ID: EE01K-7 File ID: EE01K-7A66

Compound	RT	Est. Conc.	Q
Branched Alkane	9.69	1153	J
Cyclic Alkane	10.28	1194	J
Branched Alkane	11.48	827.9	J
Straight-Chain Alkane	12.31	1680	J
Branched Alkane	12.46	2656	J
Cyclic Alkane	12.84	1076	J
Cyclic Alkane	12.94	1270	J
Branched Alkane	13.02	985.5	J
Branched Alkane	13.14	3337	J
Straight-Chain Alkane	13.45	2168	J
Branched Alkane	13.57	1357	J
Unknown Alkane	13.65	1972	J
Cyclic Alkane	13.79	1151	J
Branched Alkane	13.84	1283	J
Cyclic Alkane	14.01	1242	J
Branched Alkane	14.29	1754	J
Unknown Alkane	14.53	1412	J
Branched Alkane	14.68	773.8	J
Unknown Alkane	15.17	1321	J
Straight-Chain Alkane	15.53	806.1	J

Client Sample ID: EE01X Lab Sample ID: EE01K-11 File ID: EE01K-11A66

Compound	RT	Est. Conc.	Q
Branched Alkane	12.46	716.5	J
Branched Alkane	13.12	1034	J
Unknown Alkane	13.63	714.9	J
Cyclic Alkane	13.98	313.4	J
Branched Alkane	14.27	826.3	J
Cyclic Alkane	14.51	424.1	J
Branched Alkane	14.56	289.4	J
Cyclic Alkane	15.08	267.9	J
Branched Alkane	15.15	828.8	J
Branched Alkane	15.35	232.9	J
Straight-Chain Alkane	15.52	540.2	J
Cyclic Alkane	15.69	260.0	J
Unknown Alkane	16.05	568.0	J
Branched Alkane	16.17	564.8	J
Unknown Alkane	16.93	1159	J
Branched Alkane	17.42	1481	J
Straight-Chain Alkane	17.83	388.3	J
Straight-Chain Alkane	18.30	1746	J
Unknown Alkane	18.94	856.1	J

Client Sample ID: EE01Y Lab Sample ID: EE01K-12 File ID: EE01K-12A66

Compound	RT	Est. Conc.	Q
Unknown Alkane	17.02	15070	J
Cyclic Alkane	17.17	11400	J
Branched Alkane	17.54	12650	J
Branched Alkane	17.85	9279	J
Straight-Chain Alkane	17.92	10500	J
Cyclic Alkane	18.07	8963	J
Straight-Chain Alkane	18.31	12870	J
Branched Alkane	18.41	13120	J
Straight-Chain Alkane	18.59	7438	J
Cyclic Alkane	18.92	8972	J

9D

Unknown Alkane	19.85	3094	J
Branched Alkane	20.39	4226	J

Client Sample ID: EE020 Lab Sample ID: EE01K-14 File ID: EE01K-14

Compound	RT	Est. Conc.	Q
Unknown Alkane	14.51	504.3	J
Branched Alkane	15.15	554.0	J
Straight-Chain Alkane	16.47	695.6	J
Unknown Alkane	16.93	1397	J
Straight-Chain Alkane	17.37	527.2	J
Branched Alkane	17.42	966.3	J
Straight-Chain Alkane	17.83	358.4	J
Cyclic Alkane	17.98	430.9	J
Branched Alkane	18.30	1068	J
Cyclic Alkane	18.83	630.8	J
Branched Alkane	18.94	584.6	J
Unknown Alkane	19.01	771.7	J
Unknown Alkane	19.32	451.3	J
Straight-Chain Alkane	19.64	602.0	J
Straight-Chain Alkane	19.76	647.0	J
Straight-Chain Alkane	20.32	552.8	J
Unknown Alkane	20.49	678.2	J
Straight-Chain Alkane	23.04	716.3	J
Unknown Alkane	23.62	537.1	J
Straight-Chain Alkane	25.38	473.8	J

Client Sample ID: EE01LDL Lab Sample ID: EE01K-2 File ID: EE01K-2DA66

Compound	RT	Est. Conc.	Q
Unknown Alkane	19.79	3643	JD
Straight-Chain Alkane	23.14	3350	JD
Unknown Alkane	24.02	3194	JD
Straight-Chain Alkane	24.23	2740	JD

Client Sample ID: EE01XDL Lab Sample ID: EE01K-11 File ID: EE01K-11DA6

Compound	RT	Est. Conc.	Q
Branched Alkane	12.44	1031	JD
Cyclic Alkane	13.98	577.8	JD
Branched Alkane	14.25	1360	JD
Cyclic Alkane	15.08	841.9	JD
Unknown Alkane	15.15	1877	JD
Straight-Chain Alkane	15.52	1282	JD
Unknown Alkane	16.05	1428	JD
Straight-Chain Alkane	16.15	1297	JD
Unknown Alkane	16.39	988.7	JD
Branched Alkane	16.91	2809	JD
Straight-Chain Alkane	17.35	655.8	JD
Unknown Alkane	17.40	2799	JD
Straight-Chain Alkane	17.81	1459	JD
Branched Alkane	18.28	2596	JD
Branched Alkane	18.94	1287	JD

CompuChem
a division of Liberty Analytical Corp.
501 Madison Avenue
Cary, North Carolina 27513

SDG NARRATIVE

CASE: 28678
SDG: EE01K
CONTRACT: 68W99070

SAMPLE IDENTIFICATIONS: EE01K, EE01L, EE01M, EE01N, EE01P, EE01Q, EE01R, EE01S, EE01T, EE01W, EE01X, EE01Y, EE01Z, EE020, EE021, EE022

This portion of the SDG narrative covers only the pesticide fractions of the sixteen (16) samples listed above. For receiving information pertaining to these samples, please refer to the portion of the SDG narrative that covers the volatile fractions.

PESTICIDES

Extraction and analysis holding time requirements were met for all of these samples. The pesticide Target Compound List (TCL) analytes alpha-chlordane and/or gamma-chlordane were confirmed by dual column analysis at a concentration above the Contract Required Quantitation Limit (CRQL) in EE01L, EE01N, EE01Q, EE01S, EE01T, EE01W, EE01Y. EE01N, EE01Q, EE01S, EE01T, EE01W, EE01Y also contained the pesticide TCL analytes alpha-BHC, beta-BHC, delta-BHC, heptachlor, aldrin, heptachlor epoxide, endosulfan I, dieldrin, endrin, endosulfan II, 4,4'-DDD, endosulfan sulfate, 4,4'-DDT, endrin ketone, and/or endrin aldehyde at concentrations above the CRQL. The pesticide TCL analyte gamma-BHC was confirmed by dual column analysis at a concentration above the CRQL in EE020. EE01X contained beta-BHC at a concentration above the CRQL. EE022 contained the pesticide TCL analytes dieldrin, endosulfan sulfate, methoxychlor, endrin ketone, and endrin aldehyde at concentrations above the CRQL. The PCB TCL analyte Aroclor 1254 was confirmed by dual column analysis at a concentration above the CRQL in EE022.

Due to the concentrations of TCL analytes in the pesticide fraction, a GC/MS confirmation analysis was performed for beta-BHC in EE01N and Aroclor 1254 in EE022. The 'Y' flag is used to denote compounds that were not successfully confirmed by GC/MS analysis. The same raw data is provided for 'Y' flagged analytes that is required for successful confirmations.

Manual quantitations were performed on several of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

In the initial undiluted analyses of EE01N, EE01T, and EE022, the on-column amount of at least one pesticide TCL analyte exceeded the instrument's calibration range on at least one column. The samples were reanalyzed at dilutions ranging from 2X to 100X in order to bring the amounts into range. We have reported and billed for both analyses of each of these three samples.

Due to the results of screens of the samples, EE01Q, EE01W, and EE01Y were initially analyzed at a 20X dilution. As required by the Contract Laboratory Program (CLP) Statement of Work (SOW), the samples were reanalyzed at a ten-fold greater concentration (2X). We have reported and billed for both analyses of each of these three samples.

All of the surrogates met recovery criteria with some exceptions. Tetrachloro-m-xylene (TCX) was not recovered on the CLPEST column in the 2X dilution of EE01W due to matrix interference. The recovery of TCX fell above the quality control criteria limit on one or both columns in the analyses of EE01N, EE01W, and EE01Y. The recovery of TCX fell below the quality control criteria limit on the CLPEST2 column in the 2X dilution analysis of EE01Q. The recovery of decachlorobiphenyl (DCB) fell above the quality control criteria limit on one or both columns in the analyses of EE01S, EE01T, EE01X, EE01Z, EE020, EE022, EE01N, EE01Q, EE01W, and EE01Y. All of the detected surrogates met retention time criteria in the analyses of these samples.

9F

The associated method blank met all quality control criteria. No pesticide or PCB TCL analytes were confirmed in the method blank.

EE01Y was used as the original to prepare the duplicate matrix spikes as requested. The associated duplicate matrix spikes met all advisory accuracy and precision criteria for the spike compounds gamma-BHC, heptachlor, and 4,4'-DDT. Matrix interference with the remaining three spike compounds resulted in failing recoveries.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions listed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Stephanie W. Winfield 11-17-00
Stephanie W. Winfield
Technical Reviewer
November 17, 2000

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL) (or Reporting Limit) will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicates the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

S : This flag indicates that an analyte was detected by a single column GC analysis but the result was below the Reporting Limit. This flag is only used when clients request a second (confirmation) column analysis after detecting an analyte above the Reporting Limit in the initial, single column analysis. This flag alerts the data user that only an analyte was detected below the Reporting Limit and a second (confirmation) analysis was not performed.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

Melissa Stevens

From: Alice Evans <aevans@compuchemlabs.com>
To: Melissa Stevens <mstevens@compuchemlabs.com>
Sent: Tuesday, November 07, 2000 4:06 PM
Subject: Fw: Region 5 / Case 28678 / LIBRTY / tag discrepancy

----- Original Message -----
From: Senfield, Christopher <Christopher.Senfield@dyncorp.com>
To: 'Alice Evans' <aevans@compuchemlabs.com>
Cc: 'Howard Pham' <Pham.Howard@epamail.epa.gov>
Sent: Tuesday, November 07, 2000 3:51 PM
Subject: Region 5 / Case 28678 / LIBRTY / tag discrepancy

> Alice,
>
> Since all of the other information corresponds to that listed for EE01N,
it
> appears EE01M was just a mistake. Please make note of this and proceed
with
> analysis.
>
> Chris
>
>
> Chris Senfield
> Dyncorp
> (703) 264-9526
>
>
>
> -----Original Message-----
> From: Alice Evans [mailto:aevans@compuchemlabs.com]
> Sent: Tuesday, November 07, 2000 3:11 PM
> To: Chris Senfield
> Cc: Melissa Stevens
> Subject: Case 28678
>
>
>
> Please note to Region 5
>
> One of the tags for sample EE01N has incorrect ID on the label
> of the tag.(It has EE01M) The tag no is 59648 for the dry weight
> the station location(X112) all match the sample EE01N as well
> as the jar that the tag was attached to.
>

> Thanks Alice
>
>
>
>
>
>
> Alice Evans
> CompuChem/Liberty
> 501 Madison Ave
> Cary, NC 27513
> 919-379-4080
>
>

Melissa Stevens

From: Senfield, Christopher <Christopher.Senfield@dyncorp.com>
To: 'Melissa Stevens' <mstevens@compuchemlabs.com>
Cc: 'Howard Pham' <Pham.Howard@epamail.epa.gov>
Sent: Monday, November 06, 2000 5:52 PM
Subject: Region 5 / Case 28678 / LIBRTY / missing QCs, no temp blank

Hi Melissa,

Just writing to let you know your message was received. (Per the Region)The QC selections should be fine as long as the samples selected are field samples and not blanks. Thanks for letting me know.

Chris

Chris Senfield
Dyncorp
(703) 264-9526

-----Original Message-----
From: Melissa Stevens [mailto:mstevens@compuchemlabs.com]
Sent: Friday, November 03, 2000 4:24 PM
To: Christopher.Senfield@dyncorp.com
Cc: Alice Evans
Subject: 28678

Hi Chris,

For this case on 11/2/00 8 voa's arrived EE01B - EE01J, as you already know. But today we received the BNA and Pest/PCB portion for those 8 samples. So I put those 8 samples in a SDG by themselves; in which a QC was needed. The lab picked EE01C for QC. The SDG for these 8 samples is EE01B.

For the remaining 16 organic samples, which is full analysis. The SDG is EE01K. QC was not indicated on the traffic report, but extra volume encores was sent ID EE01Y. So the lab picked EE01Y for QC.

For the inorganic samples,I have 2 SDGs total metal and cyanide.SDG MEE01B has 20 samples. With no QC indicated. So I picked MEE01Y for QC, because of the organic extra volume sample.

For the remaining 4 samples, the SDG is MEE01Z in which the lab picked MEE01Z for QC.

There was no temperature blank included. Everything else was A OK.

Melissa Stevens
EPA Coordinator

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CompuChem a division of Liberty Analytical
www.compuchemlabs.com <http://www.compuchemlabs.com>

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Level:(low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	VBLKRP	93	100	92		0
02	EE01Z	92	99	93		0
03	EE020	100	99	95		0
04	EE021	90	96	92		0
05	EE022	103	89	93		0
06	EE01K	91	78	87		0
07	EE01M	91	94	91		0
08	EE01P	95	87	91		0
09	EE01S	104	91	96		0
10	VBLKRS	96	96	93		0
11	EE01T	102	92	98		0
12	EE01W	127	71	121		0
13	EE01Y	99	83	95		0
14	EE01YMS	105	61	98		0
15	EE01YMSD	108	104	107		0
16	EE01N	121	69	114		0
17	EE01X	94	91	91		0
18	VBLKRT	98	99	96		0
19	EE01L	106	94	94		0
20	EE01R	106	95	93		0
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Level:(low/med) MED

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	VBLKSJ	104	102	98		0
02	EE01Q	109	98	99		0
03	EE01QMS	104	99	105		0
04	EE01QMSD	97	102	107		0
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKSX	104	102	98		0
02	VHBLKTT	91	97	102		0
03						
04						
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix Spike - EPA Sample No.: EE01Y Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	54.03	0.00	59.41	110	59-172
Trichloroethene	54.03	0.00	51.41	95	62-137
Benzene	54.03	0.00	60.05	111	66-142
Toluene	54.03	1.82	80.43	145*	59-139
Chlorobenzene	54.03	0.00	62.95	117	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	56.00	61.94	111	1	22	59-172
Trichloroethene	56.00	51.09	91	4	24	62-137
Benzene	56.00	55.67	99	11	21	66-142
Toluene	56.00	61.02	106	31*	21	59-139
Chlorobenzene	56.00	57.13	102	14	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 5 outside limits
Spike Recovery: 1 out of 10 outside limits

COMMENTS: _____

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix Spike - EPA Sample No.: EE01Q Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	10590	0.00	10730	101	59-172
Trichloroethene	10590	0.00	9353	88	62-137
Benzene	10590	7079	10730	34*	66-142
Toluene	10590	1833	10010	77	59-139
Chlorobenzene	10590	0.00	9835	93	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	10590	10780	102	1	22	59-172
Trichloroethene	10590	9723	92	4	24	62-137
Benzene	10590	11010	37*	8	21	66-142
Toluene	10590	9985	77	0	21	59-139
Chlorobenzene	10590	9954	94	1	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 2 out of 10 outside limits

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKRP

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Lab File ID: WG6716-2A56 Lab Sample ID: WG6716-2

Date Analyzed: 11/07/00 Time Analyzed: 1142

GC Column: EQUITY624 5ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: F50056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE01Z	EE01K-13	EE01K-13A56	1709
02	EE020	EE01K-14	EE01K-14A56	1740
03	EE021	EE01K-15	EE01K-15A56	1811
04	EE022	EE01K-16	EE01K-16A56	1842
05	EE01K	EE01K-1	EE01K-1A56	1914
06	EE01M	EE01K-3	EE01K-3A56	1946
07	EE01P	EE01K-5	EE01K-5A56	2017
08	EE01S	EE01K-8	EE01K-8A56	2048
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COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKRS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Lab File ID: WG6717-2A56 Lab Sample ID: WG6717-2

Date Analyzed: 11/08/00 Time Analyzed: 1024

GC Column: EQUITY624 5ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: F50056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE01T	EE01K-9	EE01K-9A56	1110
02	EE01W	EE01K-10	EE01K-10A56	1139
03	EE01Y	EE01K-12	EE01K-12A56	1209
04	EE01YMS	WG6717-4	WG6717-4A56	1239
05	EE01YMSD	WG6717-5	WG6717-5A56	1310
06	EE01N	EE01K-4	EE01K-4DA56	1509
07	EE01X	EE01K-11	EE01K-11DA56	1609
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKRT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Lab File ID: WG6717-3A56 Lab Sample ID: WG6717-3

Date Analyzed: 11/10/00 Time Analyzed: 0946

GC Column: EQUITY624 5ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: F50056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE01L	EE01K-2	EE01K-2R4A56	1211
02	EE01R	EE01K-7	EE01K-7R2A56	1243
03				
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COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKSJ

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Lab File ID: WG6723-1B55MEOH Lab Sample ID: WG6723-1

Date Analyzed: 11/13/00 Time Analyzed: 1418

GC Column: EQUITY624 5ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50055

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE01Q	EE01K-6	EE01K-6B55	1604
02	EE01QMS	WG6771-4	WG6771-4B55	1637
03	EE01QMSD	WG6771-5	WG6771-5B55	1709
04				
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COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKSX

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Lab File ID: WG6723-1B55 Lab Sample ID: WG6723-4

Date Analyzed: 11/13/00 Time Analyzed: 1418

GC Column: EQUITY624 5ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50055

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VHBLKTT	WG6771-6	WG6771-6B55	1745
02				
03				
04				
05				
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07				
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01K

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-1

Sample wt/vol: 5.13(g/mL) G Lab File ID: EE01K-1A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 20 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	11	J
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	6	J
75-09-2	Methylene Chloride	16	B
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl-tert-butyl ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01K

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-1

Sample wt/vol: 5.13(g/mL) G Lab File ID: EE01K-1A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 20 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	2	J
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (Total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-Chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01K

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01!

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-1

Sample wt/vol: 5.13 (g/mL) G Lab File ID: EE01K-1A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 20 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 9 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.32	29	J
2.	UNKNOWN	8.78	22	J
3.	UNKNOWN	9.20	13	J
4.	UNKNOWN	9.73	25	J
5.	UNKNOWN	10.54	20	J
6.	UNKNOWN	11.24	8	J
7. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	16.06	27	NJ
8.	LABORATORY ARTIFACT	17.78	22	JB
9.	LABORATORY ARTIFACT	19.32	14	JB
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01L

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-2

Sample wt/vol: 5.54(g/mL) G Lab File ID: EE01K-2R4A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 20 Date Analyzed: 11/10/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	19	B
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	11 ~~10~~	JB
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-butyl ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	1	J
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	1	J
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	2	J
107-06-2	1,2-Dichloroethane	11	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01L

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-2

Sample wt/vol: 5.54(g/mL) G Lab File ID: EE01K-2R4A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 20 Date Analyzed: 11/10/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	3	J
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	3	J
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (Total)	5	J
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-Chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01L

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-2

Sample wt/vol: 5.54 (g/mL) G Lab File ID: EE01K-2R4A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 20 Date Analyzed: 11/10/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.19	25	J
2.	UNKNOWN	7.25	11	J
3.	UNKNOWN	7.66	10	J
4.	UNKNOWN	8.35	19	J
5.	UNKNOWN	8.92	19	J
6.	UNKNOWN	10.53	16	J
7. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	13.45	7	NJB
8. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	16.04	25	NJB
9.	UNKNOWN	17.73	17	J
10.	LABORATORY ARTIFACT	19.26	9	JB
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01M

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-3

Sample wt/vol: 4.77(g/mL) G Lab File ID: EE01K-3A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 16 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	43	
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	17	B
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl-tert-butyl ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	23	
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01M

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-3

Sample wt/vol: 4.77(g/mL) G Lab File ID: EE01K-3A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 16 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	1	J
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (Total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-Chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01M

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01I

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-3

Sample wt/vol: 4.77 (g/mL) G Lab File ID: EE01K-3A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 16 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 14 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.73	7	J
2.	UNKNOWN	8.31	9	J
3.	UNKNOWN	8.90	14	J
4.	UNKNOWN	10.45	24	J
5. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	16.08	18	NJ
6.	UNKNOWN	16.87	14	J
7.	UNKNOWN	17.63	7	J
8.	LABORATORY ARTIFACT	17.79	27	J
9.	UNKNOWN	18.12	8	J
10.	UNKNOWN	18.43	8	J
11. 17059-48-2	1H-INDENE, 2,3-DIHYDRO-1,6-D	18.71	7	NJ
12. 4175-53-5	1H-INDENE, 2,3-DIHYDRO-1,3-D	18.84	13	NJ
13.	UNKNOWN	19.14	8	J
14.	LABORATORY ARTIFACT	19.34	13	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01N

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-4

Sample wt/vol: 1.0 (g/mL) G Lab File ID: EE01K-4DA56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 29 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: ~~1~~ 50.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	70	U
74-87-3	Chloromethane	70	U
75-01-4	Vinyl Chloride	70	U
74-83-9	Bromomethane	70	U
75-00-3	Chloroethane	70	U
75-69-4	Trichlorofluoromethane	70	U
75-35-4	1,1-Dichloroethene	70	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	70	U
67-64-1	Acetone	70 ~~69~~	JB U
75-15-0	Carbon Disulfide	70	U
79-20-9	Methyl Acetate	70	U
75-09-2	Methylene Chloride	70 ~~14~~	JB U
156-60-5	trans-1,2-Dichloroethene	70	U
1634-04-4	Methyl-tert-butyl ether	70	U
75-34-3	1,1-Dichloroethane	70	U
156-59-2	cis-1,2-Dichloroethene	70	U
78-93-3	2-Butanone	70	U
67-66-3	Chloroform	70	U
71-55-6	1,1,1-Trichloroethane	70	U
110-82-7	Cyclohexane	200	
56-23-5	Carbon Tetrachloride	70	U
71-43-2	Benzene	70	U
107-06-2	1,2-Dichloroethane	70	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01N

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01I

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-4

Sample wt/vol: 1.0 (g/mL) G Lab File ID: EE01K-4DA56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 29 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: ~~1.0~~ 50 [illegible] 12-7-00

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	70	U
108-87-2	Methylcyclohexane	710	
78-87-5	1,2-Dichloropropane	70	U
75-27-4	Bromodichloromethane	70	U
10061-01-5	cis-1,3-Dichloropropene	70	U
108-10-1	4-Methyl-2-Pentanone	70	U
108-88-3	Toluene	16	J
10061-02-6	trans-1,3-Dichloropropene	70	U
79-00-5	1,1,2-Trichloroethane	70	U
127-18-4	Tetrachloroethene	70	U
591-78-6	2-Hexanone	70	U
124-48-1	Dibromochloromethane	70	U
106-93-4	1,2-Dibromoethane	70	U
108-90-7	Chlorobenzene	70	U
100-41-4	Ethylbenzene	30	J
1330-20-7	Xylene (Total)	1000	
100-42-5	Styrene	20	J
75-25-2	Bromoform	70	U
98-82-8	Isopropylbenzene	39	J
79-34-5	1,1,2,2-Tetrachloroethane	70	U
541-73-1	1,3-Dichlorobenzene	70	U
106-46-7	1,4-Dichlorobenzene	70	U
95-50-1	1,2-Dichlorobenzene	70	U
96-12-8	1,2-Dibromo-3-Chloropropane	70	U
120-82-1	1,2,4-Trichlorobenzene	70	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01N

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-4

Sample wt/vol: 1.0 (g/mL) G Lab File ID: EE01K-4DA56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 29 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: ~~1.0~~ 50

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 29 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	15.59	3300	J
2. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	16.20	1400	NJ
3. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	16.49	3000	NJ
4. 527-84-4	BENZENE, 1-METHYL-2-(1-METHY	16.90	6300	NJ
5. 1074-43-7	BENZENE, 1-METHYL-3-PROPYL-	17.25	2300	NJ
6. 99-87-6	BENZENE, 1-METHYL-4-(1-METHY	17.31	2900	NJ
7.	SUBSTITUTED BENZENE	17.57	7500	J
8.	SUBSTITUTED BENZENE	17.78	4800	J
9.	SUBSTITUTED BENZENE	17.86	1400	J
10.	SUBSTITUTED BENZENE	17.92	930	J
11.	UNKNOWN	17.98	4500	J
12. 95-93-2	BENZENE, 1,2,4,5-TETRAMETHYL	18.06	3900	NJ
13.	SUBSTITUTED BENZENE	18.14	3500	J
14.	SUBSTITUTED BENZENE	18.26	1100	J
15.	UNKNOWN	18.59	2600	J
16.	SUBSTITUTED BENZENE	18.76	3100	J
17. 17059-48-2	1H-INDENE, 2,3-DIHYDRO-1,6-D	18.85	3300	NJ
18.	UNKNOWN	18.91	4400	J
19.	UNKNOWN	19.14	1700	J
20.	DIHYDRODIMETHYLINDENE	19.32	3500	J
21. 17057-82-8	1H-INDENE, 2,3-DIHYDRO-1,2-D	19.48	2000	NJ
22.	UNKNOWN	19.66	1400	J
23.	DIHYDRODIMETHYLINDENE	19.81	2300	J
24.	SUBSTITUTED NAPHTHALENE	19.95	1500	J
25.	UNKNOWN	20.43	960	J
26.	UNKNOWN	20.75	1400	J
27.	SUBSTITUTED NAPHTHALENE	21.00	820	J
28. 581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	21.15	1100	NJ
29. 581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	21.34	1300	NJ
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01P

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-5

Sample wt/vol: 4.93(g/mL) G Lab File ID: EE01K-5A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 29 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	14	U
75-35-4	1,1-Dichloroethene	14	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	U
67-64-1	Acetone	23	
75-15-0	Carbon Disulfide	14	U
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	22	B
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	Methyl-tert-butyl ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	5	J
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	14	U
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01P

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-5

Sample wt/vol: 4.93(g/mL) G Lab File ID: EE01K-5A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 29 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	14	U
108-87-2	Methylcyclohexane	14	U
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	3	J
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	14	U
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
1330-20-7	Xylene (Total)	14	U
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3-Dichlorobenzene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
95-50-1	1,2-Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-Chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01P

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-5

Sample wt/vol: 4.93 (g/mL) G Lab File ID: EE01K-5A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 29 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

ACH 12-6-00

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	15.99	26	JBK
2.	LABORATORY ARTIFACT	17.68	41	JBK
3.	LABORATORY ARTIFACT	19.21	16	JBK
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01Q

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-6

Sample wt/vol: 2.46(g/mL) G Lab File ID: EE01K-6B55

Level: (low/med) MED Date Received: 11/03/00

% Moisture: not dec. 4 Date Analyzed: 11/13/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: ~~1.0~~ 4.0 [illegible]

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 25(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND			Q
75-71-8	Dichlorodifluoromethane		8800	U
74-87-3	Chloromethane		8800	U
75-01-4	Vinyl Chloride		8800	U
74-83-9	Bromomethane		8800	U
75-00-3	Chloroethane		8800	U
75-69-4	Trichlorofluoromethane		8800	U
75-35-4	1,1-Dichloroethene		8800	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		8800	U
67-64-1	Acetone	8800	~~2600~~	JB
75-15-0	Carbon Disulfide		8800	U
79-20-9	Methyl Acetate		8800	U
75-09-2	Methylene Chloride		8800	U
156-60-5	trans-1,2-Dichloroethene		8800	U
1634-04-4	Methyl tert-Butyl Ether		8800	U
75-34-3	1,1-Dichloroethane		8800	U
156-59-2	cis-1,2-Dichloroethene		8800	U
78-93-3	2-Butanone		8800	U
67-66-3	Chloroform		8800	U
71-55-6	1,1,1-Trichloroethane		8800	U
110-82-7	Cyclohexane		58000	
56-23-5	Carbon Tetrachloride		8800	U
71-43-2	Benzene		7100	J
107-06-2	1,2-Dichloroethane		8800	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01Q

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01I

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-6

Sample wt/vol: 2.46(g/mL) G Lab File ID: EE01K-6B55

Level: (low/med) MED Date Received: 11/03/00

% Moisture: not dec. 4 Date Analyzed: 11/13/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: ~~1.0~~ 4.0 acH 12.7.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 25(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	8800	U
108-87-2	Methylcyclohexane	130000	
78-87-5	1,2-Dichloropropane	8800	U
75-27-4	Bromodichloromethane	8800	U
10061-01-5	cis-1,3-Dichloropropene	8800	U
108-10-1	4-Methyl-2-Pentanone	8800	U
108-88-3	Toluene	1800	J
10061-02-6	trans-1,3-Dichloropropene	8800	U
79-00-5	1,1,2-Trichloroethane	8800	U
127-18-4	Tetrachloroethene	8800	U
591-78-6	2-Hexanone	8800	U
124-48-1	Dibromochloromethane	8800	U
106-93-4	1,2-Dibromoethane	8800	U
108-90-7	Chlorobenzene	8800	U
100-41-4	Ethylbenzene	10000	
1330-20-7	Xylene (Total)	34000	
100-42-5	Styrene	8800	U
75-25-2	Bromoform	8800	U
98-82-8	Isopropylbenzene	2900	J
79-34-5	1,1,2,2-Tetrachloroethane	8800	U
541-73-1	1,3-Dichlorobenzene	8800	U
106-46-7	1,4-Dichlorobenzene	8800	U
95-50-1	1,2-Dichlorobenzene	8800	U
96-12-8	1,2-Dibromo-3-Chloropropane	8800	U
120-82-1	1,2,4-Trichlorobenzene	8800	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01Q

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-6

Sample wt/vol: 2.46 (g/mL) G Lab File ID: EE01K-6B55

Level: (low/med) MED Date Received: 11/03/00

% Moisture: not dec. 4 Date Analyzed: 11/13/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: ~~1.0~~ 4.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 25(uL)

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALCOHOL	14.85	28000	J
2.	UNKNOWN	15.42	32000	J
3.	UNKNOWN	15.89	97000	J
4.	UNKNOWN	15.96	26000	J
5.	UNKNOWN	16.02	39000	J
6.	UNKNOWN ALKENE	16.31	39000	J
7. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	16.42	61000	NJ
8. 108-67-8	BENZENE, 1,3,5-TRIMETHYL-	16.48	83000	NJ
9. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	16.66	38000	NJ
10. 108-67-8	BENZENE, 1,3,5-TRIMETHYL-	16.80	71000	NJ
11.	SUBSTITUTED BENZENE	16.98	71000	J
12. 527-84-4	BENZENE, 1-METHYL-2-(1-METHY	17.04	28000	NJ
13. 526-73-8	BENZENE, 1,2,3-TRIMETHYL-	17.16	54000	NJ
14. 1074-43-7	BENZENE, 1-METHYL-3-PROPYL-	17.31	61000	NJ
15. 527-84-4	BENZENE, 1-METHYL-2-(1-METHY	17.35	58000	NJ
16. 493-02-7	NAPHTHALENE, DECAHYDRO-, TRA	17.45	52000	NJ
17. 135-98-8	BENZENE, (1-METHYLPROPYL)-	17.54	33000	NJ
18. 95-93-2	BENZENE, 1,2,4,5-TETRAMETHYL	17.63	56000	NJ
19. 1758-88-9	BENZENE, 2-ETHYL-1,4-DIMETHY	17.69	39000	NJ
20.	SUBSTITUTED BENZENE	17.80	68000	J
21.	SUBSTITUTED BENZENE	17.86	41000	J
22.	UNKNOWN	18.00	37000	J
23.	UNKNOWN	18.06	38000	J
24. 95-93-2	BENZENE, 1,2,4,5-TETRAMETHYL	18.11	35000	NJ
25.	SUBSTITUTED BENZENE	18.16	37000	J
26. 2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	18.22	36000	NJ
27.	SUBSTITUTED BENZENE	18.44	41000	J
28. 99-87-6	BENZENE, 1-METHYL-4-(1-METHY	18.55	85000	NJ
29.	UNKNOWN	18.81	33000	J
30.	SUBSTITUTED BENZENE	18.89	39000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01QMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: WG6771-4

Sample wt/vol: 2.46(g/mL) G Lab File ID: WG6771-4B55

Level: (low/med) MED Date Received: 11/03/00

% Moisture: not dec. 4 Date Analyzed: 11/13/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: ~~1.0~~ 40 acft 12-7-00

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 25(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	8800	U
74-87-3	Chloromethane	8800	U
75-01-4	Vinyl Chloride	8800	U
74-83-9	Bromomethane	8800	U
75-00-3	Chloroethane	8800	U
75-69-4	Trichlorofluoromethane	8800	U
75-35-4	1,1-Dichloroethene	11000	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8800	U
67-64-1	Acetone	8800 ~~2800~~	JB
75-15-0	Carbon Disulfide	8800	U
79-20-9	Methyl Acetate	8800	U
75-09-2	Methylene Chloride	8800	U
156-60-5	trans-1,2-Dichloroethene	8800	U
1634-04-4	Methyl tert-Butyl Ether	8800	U
75-34-3	1,1-Dichloroethane	8800	U
156-59-2	cis-1,2-Dichloroethene	8800	U
78-93-3	2-Butanone	8800	U
67-66-3	Chloroform	8800	U
71-55-6	1,1,1-Trichloroethane	8800	U
110-82-7	Cyclohexane	61000	
56-23-5	Carbon Tetrachloride	8800	U
71-43-2	Benzene	11000	
107-06-2	1,2-Dichloroethane	8800	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01QMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6771-4

Sample wt/vol: 2.46(g/mL) G Lab File ID: WG6771-4B55

Level: (low/med) MED Date Received: 11/03/00

% Moisture: not dec. 4 Date Analyzed: 11/13/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: ~~1.0~~ 4.0 aah 12-7-00

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 25(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
79-01-6	Trichloroethene	9400	
108-87-2	Methylcyclohexane	130000	
78-87-5	1,2-Dichloropropane	8800	U
75-27-4	Bromodichloromethane	8800	U
10061-01-5	cis-1,3-Dichloropropene	8800	U
108-10-1	4-Methyl-2-Pentanone	8800	U
108-88-3	Toluene	10000	
10061-02-6	trans-1,3-Dichloropropene	8800	U
79-00-5	1,1,2-Trichloroethane	8800	U
127-18-4	Tetrachloroethene	8800	U
591-78-6	2-Hexanone	8800	U
124-48-1	Dibromochloromethane	8800	U
106-93-4	1,2-Dibromoethane	8800	U
108-90-7	Chlorobenzene	9800	
100-41-4	Ethylbenzene	11000	
1330-20-7	Xylene (Total)	34000	
100-42-5	Styrene	8800	U
75-25-2	Bromoform	8800	U
98-82-8	Isopropylbenzene	3100	J
79-34-5	1,1,2,2-Tetrachloroethane	8800	U
541-73-1	1,3-Dichlorobenzene	8800	U
106-46-7	1,4-Dichlorobenzene	8800	U
95-50-1	1,2-Dichlorobenzene	8800	U
96-12-8	1,2-Dibromo-3-Chloropropane	8800	U
120-82-1	1,2,4-Trichlorobenzene	8800	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01QMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6771-5

Sample wt/vol: 2.46(g/mL) G Lab File ID: WG6771-5B55

Level: (low/med) MED Date Received: 11/03/00

% Moisture: not dec. 4 Date Analyzed: 11/13/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: ~~1.0~~ 4.0 ACPL 12-7-00

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 25(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	8800	U
74-87-3	Chloromethane	8800	U
75-01-4	Vinyl Chloride	8800	U
74-83-9	Bromomethane	8800	U
75-00-3	Chloroethane	8800	U
75-69-4	Trichlorofluoromethane	8800	U
75-35-4	1,1-Dichloroethene	11000	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8800	U
67-64-1	Acetone	8800 ~~2200~~	JB
75-15-0	Carbon Disulfide	8800	U
79-20-9	Methyl Acetate	8800	U
75-09-2	Methylene Chloride	8800	U
156-60-5	trans-1,2-Dichloroethene	8800	U
1634-04-4	Methyl tert-Butyl Ether	8800	U
75-34-3	1,1-Dichloroethane	8800	U
156-59-2	cis-1,2-Dichloroethene	8800	U
78-93-3	2-Butanone	8800	U
67-66-3	Chloroform	8800	U
71-55-6	1,1,1-Trichloroethane	8800	U
110-82-7	Cyclohexane	52000	
56-23-5	Carbon Tetrachloride	8800	U
71-43-2	Benzene	11000	
107-06-2	1,2-Dichloroethane	8800	U

12-7-00

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01QMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6771-5

Sample wt/vol: 2.46(g/mL) G Lab File ID: WG6771-5B55

Level: (low/med) MED Date Received: 11/03/00

% Moisture: not dec. 4 Date Analyzed: 11/13/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: ~~1.0~~ 4.0 12-7-00

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 25(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	9700	
108-87-2	Methylcyclohexane	130000	
78-87-5	1,2-Dichloropropane	8800	U
75-27-4	Bromodichloromethane	8800	U
10061-01-5	cis-1,3-Dichloropropene	8800	U
108-10-1	4-Methyl-2-Pentanone	8800	U
108-88-3	Toluene	10000	
10061-02-6	trans-1,3-Dichloropropene	8800	U
79-00-5	1,1,2-Trichloroethane	8800	U
127-18-4	Tetrachloroethene	8800	U
591-78-6	2-Hexanone	8800	U
124-48-1	Dibromochloromethane	8800	U
106-93-4	1,2-Dibromoethane	8800	U
108-90-7	Chlorobenzene	10000	
100-41-4	Ethylbenzene	11000	
1330-20-7	Xylene (Total)	35000	
100-42-5	Styrene	8800	U
75-25-2	Bromoform	8800	U
98-82-8	Isopropylbenzene	3200	J
79-34-5	1,1,2,2-Tetrachloroethane	8800	U
541-73-1	1,3-Dichlorobenzene	8800	U
106-46-7	1,4-Dichlorobenzene	8800	U
95-50-1	1,2-Dichlorobenzene	8800	U
96-12-8	1,2-Dibromo-3-Chloropropane	8800	U
120-82-1	1,2,4-Trichlorobenzene	8800	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01R

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-7

Sample wt/vol: 5.25(g/mL) G Lab File ID: EE01K-7R2A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 26 Date Analyzed: 11/10/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
67-64-1	Acetone	34	B
75-15-0	Carbon Disulfide	13	U
79-20-9	Methyl Acetate	13	U
75-09-2	Methylene Chloride	14	B
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl-tert-butyl ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	6	J
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	1	J
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	3	J
107-06-2	1,2-Dichloroethane	13	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01R

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-7

Sample wt/vol: 5.25(g/mL) G Lab File ID: EE01K-7R2A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 26 Date Analyzed: 11/10/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	13	U
108-87-2	Methylcyclohexane	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
1330-20-7	Xylene (Total)	2	J
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-Chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01R

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-7

Sample wt/vol: 5.25 (g/mL) G Lab File ID: EE01K-7R2A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 26 Date Analyzed: 11/10/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 6 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.37	27	J
2.	UNKNOWN	8.88	19	J
3. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	13.56	9	NJB
4.	LABORATORY ARTIFACT	16.18	23	J
5.	LABORATORY ARTIFACT	17.91	30	JB
6.	LABORATORY ARTIFACT	19.46	22	JB
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01S

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-8

Sample wt/vol: 4.41(g/mL) G Lab File ID: EE01K-8A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 18 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	14	U
75-35-4	1,1-Dichloroethene	14	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	U
67-64-1	Acetone	49	
75-15-0	Carbon Disulfide	14	U
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	14 ~~8~~	JB
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	Methyl-tert-butyl ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	9	J
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	14	U
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U

12-6-00

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01S

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-8

Sample wt/vol: 4.41(g/mL) G Lab File ID: EE01K-8A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 18 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	14	U
108-87-2	Methylcyclohexane	14	U
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	14	U
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
1330-20-7	Xylene (Total)	14	U
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3-Dichlorobenzene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
95-50-1	1,2-Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-Chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01S

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-8

Sample wt/vol: 4.41 (g/mL) G Lab File ID: EE01K-8A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 18 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	16.07	16	JB
2.	LABORATORY ARTIFACT	17.79	70	JB
3.	LABORATORY ARTIFACT	19.32	21	JB
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01T

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-9

Sample wt/vol: 4.54(g/mL) G Lab File ID: EE01K-9A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 19 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	14	U
75-35-4	1,1-Dichloroethene	14	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	U
67-64-1	Acetone	52	B
75-15-0	Carbon Disulfide	14	U
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	14 ~~1~~	JB
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	Methyl-tert-butyl ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	14	U
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	14	U
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01T

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-9

Sample wt/vol: 4.54(g/mL) G Lab File ID: EE01K-9A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 19 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	14	U
108-87-2	Methylcyclohexane	14	U
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	1	J
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
1330-20-7	Xylene (Total)	14	U
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3-Dichlorobenzene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
95-50-1	1,2-Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-Chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01T

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-9

Sample wt/vol: 4.54 (g/mL) G Lab File ID: EE01K-9A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 19 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	16.09	8	JB
2.	LABORATORY ARTIFACT	17.80	11	JB
3.	LABORATORY ARTIFACT	19.34	13	JB
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01W

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-10

Sample wt/vol: 2.97(g/mL) G Lab File ID: EE01K-10A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 18 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	21	U
74-87-3	Chloromethane	21	U
75-01-4	Vinyl Chloride	21	U
74-83-9	Bromomethane	21	U
75-00-3	Chloroethane	21	U
75-69-4	Trichlorofluoromethane	21	U
75-35-4	1,1-Dichloroethene	21	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21	U
67-64-1	Acetone	21 ~~11~~	JB
75-15-0	Carbon Disulfide	21	U
79-20-9	Methyl Acetate	21	U
75-09-2	Methylene Chloride	21 ~~2~~	JB
156-60-5	trans-1,2-Dichloroethene	21	U
1634-04-4	Methyl-tert-butyl ether	21	U
75-34-3	1,1-Dichloroethane	21	U
156-59-2	cis-1,2-Dichloroethene	21	U
78-93-3	2-Butanone	21	U
67-66-3	Chloroform	21	U
71-55-6	1,1,1-Trichloroethane	21	U
110-82-7	Cyclohexane	21	U
56-23-5	Carbon Tetrachloride	21	U
71-43-2	Benzene	21	U
107-06-2	1,2-Dichloroethane	21	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01W

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01.

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-10

Sample wt/vol: 2.97(g/mL) G Lab File ID: EE01K-10A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 18 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	21	U
108-87-2	Methylcyclohexane	21	U
78-87-5	1,2-Dichloropropane	21	U
75-27-4	Bromodichloromethane	21	U
10061-01-5	cis-1,3-Dichloropropene	21	U
108-10-1	4-Methyl-2-Pentanone	21	U
108-88-3	Toluene	21	U
10061-02-6	trans-1,3-Dichloropropene	21	U
79-00-5	1,1,2-Trichloroethane	21	U
127-18-4	Tetrachloroethene	3	J
591-78-6	2-Hexanone	21	U
124-48-1	Dibromochloromethane	21	U
106-93-4	1,2-Dibromoethane	21	U
108-90-7	Chlorobenzene	21	U
100-41-4	Ethylbenzene	21	U
1330-20-7	Xylene (Total)	21	U
100-42-5	Styrene	21	U
75-25-2	Bromoform	21	U
98-82-8	Isopropylbenzene	21	U
79-34-5	1,1,2,2-Tetrachloroethane	21	U
541-73-1	1,3-Dichlorobenzene	21	U
106-46-7	1,4-Dichlorobenzene	21	U
95-50-1	1,2-Dichlorobenzene	21	U
96-12-8	1,2-Dibromo-3-Chloropropane	21	U
120-82-1	1,2,4-Trichlorobenzene	21	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01W

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-10

Sample wt/vol: 2.97 (g/mL) G Lab File ID: EE01K-10A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 18 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	13.41	12	NJ
2.	LABORATORY ARTIFACT	15.99	28	JB
3.	LABORATORY ARTIFACT	17.69	71	JB
4.	LABORATORY ARTIFACT	19.22	71	JB
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01X

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01I

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-11

Sample wt/vol: 1.0 (g/mL) G Lab File ID: EE01K-11DA56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 22 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: ~~1.0~~ 5.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	64	U
74-87-3	Chloromethane	64	U
75-01-4	Vinyl Chloride	64	U
74-83-9	Bromomethane	64	U
75-00-3	Chloroethane	64	U
75-69-4	Trichlorofluoromethane	64	U
75-35-4	1,1-Dichloroethene	64	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	64	U
67-64-1	Acetone	210	B
75-15-0	Carbon Disulfide	64	U
79-20-9	Methyl Acetate	64	U
75-09-2	Methylene Chloride	64 ~~10~~	JB
156-60-5	trans-1,2-Dichloroethene	64	U
1634-04-4	Methyl-tert-butyl ether	64	U
75-34-3	1,1-Dichloroethane	64	U
156-59-2	cis-1,2-Dichloroethene	64	U
78-93-3	2-Butanone	33	J
67-66-3	Chloroform	64	U
71-55-6	1,1,1-Trichloroethane	64	U
110-82-7	Cyclohexane	64	U
56-23-5	Carbon Tetrachloride	64	U
71-43-2	Benzene	64	U
107-06-2	1,2-Dichloroethane	64	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01X

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-11

Sample wt/vol: 1.0 (g/mL) G Lab File ID: EE01K-11DA56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 22 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: ~~1.0~~ 5.0 acH 12-7-00

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	64	U
108-87-2	Methylcyclohexane	64	U
78-87-5	1,2-Dichloropropane	64	U
75-27-4	Bromodichloromethane	64	U
10061-01-5	cis-1,3-Dichloropropene	64	U
108-10-1	4-Methyl-2-Pentanone	64	U
108-88-3	Toluene	64	U
10061-02-6	trans-1,3-Dichloropropene	64	U
79-00-5	1,1,2-Trichloroethane	64	U
127-18-4	Tetrachloroethene	64	U
591-78-6	2-Hexanone	64	U
124-48-1	Dibromochloromethane	64	U
106-93-4	1,2-Dibromoethane	64	U
108-90-7	Chlorobenzene	64	U
100-41-4	Ethylbenzene	64	U
1330-20-7	Xylene (Total)	64	U
100-42-5	Styrene	64	U
75-25-2	Bromoform	64	U
98-82-8	Isopropylbenzene	64	U
79-34-5	1,1,2,2-Tetrachloroethane	64	U
541-73-1	1,3-Dichlorobenzene	64	U
106-46-7	1,4-Dichlorobenzene	64	U
95-50-1	1,2-Dichlorobenzene	64	U
96-12-8	1,2-Dibromo-3-Chloropropane	64	U
120-82-1	1,2,4-Trichlorobenzene	64	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01X

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01I

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-11

Sample wt/vol: 1.0 (g/mL) G Lab File ID: EE01K-11DA56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 22 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 28 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	15.97	420	J
2.	UNKNOWN	16.27	340	J
3.	UNKNOWN	16.85	460	J
4. 493-02-7	NAPHTHALENE, DECAHYDRO-, TRA	17.26	480	NJ
5.	UNKNOWN	17.40	720	J
6.	UNKNOWN	17.54	1400	J
7. 2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	17.84	270	NJ
8.	UNKNOWN	17.90	1700	J
9.	SUBSTITUTED NAPHTHALENE	18.03	1200	J
10.	UNKNOWN	18.14	370	J
11.	UNKNOWN	18.36	1400	J
12.	UNKNOWN	18.51	1600	J
13.	UNKNOWN	18.77	380	J
14.	UNKNOWN	19.05	1000	J
15.	UNKNOWN	19.17	800	J
16.	UNKNOWN	19.32	4100	J
17.	SUBSTITUTED BENZENE	19.52	290	J
18.	UNKNOWN	19.59	220	J
19.	UNKNOWN	19.70	820	J
20.	UNKNOWN	19.93	390	J
21.	UNKNOWN	20.18	600	J
22.	UNKNOWN	20.33	770	J
23.	UNKNOWN	20.53	240	J
24.	UNKNOWN	21.01	170	J
25.	UNKNOWN	21.06	150	J
26. 575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	21.26	340	NJ
27.	UNKNOWN	21.47	220	J
28.	UNKNOWN	21.64	150	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01Y

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-12

Sample wt/vol: 5.73(g/mL) G Lab File ID: EE01K-12A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 4 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	130	B
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10 ~~3~~	JB
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	22	
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01Y

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01.

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-12

Sample wt/vol: 5.73(g/mL) G Lab File ID: EE01K-12A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 4 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	1	J
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	4	J
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01Y

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-12

Sample wt/vol: 5.73 (g/mL) G Lab File ID: EE01K-12A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 4 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 15 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALKENE	16.14	20	J
2. 930-02-9	OCTADECANE, 1-(ETHENYLOXY)-	16.43	21	NJ
3.	UNKNOWN	16.92	13	J
4.	SUBSTITUTED BENZENE	17.15	17	J
5. 0-00-0	1-ETHYL-2,2,6-TRIMETHYLCYCLO	17.26	13	NJ
6.	UNKNOWN	17.62	16	J
7.	UNKNOWN	17.73	20	J
8.	UNKNOWN	18.10	20	J
9.	UNKNOWN	18.23	20	J
10.	UNKNOWN	18.56	29	J
11.	UNKNOWN	18.71	28	J
12.	UNKNOWN	19.47	43	J
13. 12108-13-3	MANGANESE, TRICARBONYL[(1,2,	19.78	17	NJ
14.	UNKNOWN PNA	19.82	14	J
15.	UNKNOWN	20.56	20	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01YMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01I

Matrix: (soil/water) SOIL Lab Sample ID: WG6717-4

Sample wt/vol: 4.82(g/mL) G Lab File ID: WG6717-4A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 4 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	59	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	47	B
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	11	U
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-butyl ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	11	
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	2	J
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	60	
107-06-2	1,2-Dichloroethane	11	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01YMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6717-4

Sample wt/vol: 4.82(g/mL) G Lab File ID: WG6717-4A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 4 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	51	
108-87-2	Methylcyclohexane	2	J
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	80	
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	63	
100-41-4	Ethylbenzene	4	J
1330-20-7	Xylene (Total)	16	
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-Chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01YMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01..

Matrix: (soil/water) SOIL Lab Sample ID: WG6717-5

Sample wt/vol: 4.65(g/mL) G Lab File ID: WG6717-5A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 4 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	62	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	16	B
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	11 ~~8~~	JB
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-butyl ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	56	
107-06-2	1,2-Dichloroethane	11	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01YMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6717-5

Sample wt/vol: 4.65(g/mL) G Lab File ID: WG6717-5A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 4 Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	51	
108-87-2	Methylcyclohexane	2	J
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	61	
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	57	
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-Chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01Z

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-13

Sample wt/vol: 5.87(g/mL) G Lab File ID: EE01K-13A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 27 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	23	
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	15	B
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl-tert-butyl ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01Z

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-13

Sample wt/vol: 5.87(g/mL) G Lab File ID: EE01K-13A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 27 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	1	J
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	2	J
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (Total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-Chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01Z

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-13

Sample wt/vol: 5.87 (g/mL) G Lab File ID: EE01K-13A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 27 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 8 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.31	18	J
2.	UNKNOWN	8.76	13	J
3.	UNKNOWN	9.19	9	J
4.	UNKNOWN	9.69	15	J
5.	UNKNOWN	10.52	14	J
6.	LABORATORY ARTIFACT	15.99	13	J
7.	LABORATORY ARTIFACT	17.69	12	J
8.	LABORATORY ARTIFACT	19.22	11	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE020

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-14

Sample wt/vol: 5.25(g/mL) G Lab File ID: EE01K-14A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 25 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
67-64-1	Acetone	17	
75-15-0	Carbon Disulfide	13	U
79-20-9	Methyl Acetate	13	U
75-09-2	Methylene Chloride	13 ~~4~~	JB
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl-tert-butyl ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	13	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	13	U
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE020

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-14

Sample wt/vol: 5.25(g/mL) G Lab File ID: EE01K-14A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 25 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	13	U
108-87-2	Methylcyclohexane	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	2	J
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
1330-20-7	Xylene (Total)	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-Chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE020

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-14

Sample wt/vol: 5.25 (g/mL) G Lab File ID: EE01K-14A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 25 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 9 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.33	10	J
2.	UNKNOWN	8.84	10	J
3.	UNKNOWN	9.14	0	
4.	UNKNOWN	9.75	7	J
5.	UNKNOWN	10.56	9	J
6. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	13.49	6	NJ
7. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	16.09	22	NJ
8.	LABORATORY ARTIFACT	17.80	14	J
9.	LABORATORY ARTIFACT	19.34	14	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE021

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-15

Sample wt/vol: 4.48(g/mL) G Lab File ID: EE01K-15A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 6 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	21	
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	16	B
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl-tert-butyl ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	4	J
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE021

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-15

Sample wt/vol: 4.48(g/mL) G Lab File ID: EE01K-15A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 6 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (Total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-Chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE021

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01.

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-15

Sample wt/vol: 4.48 (g/mL) G Lab File ID: EE01K-15A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 6 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 6 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.30	14	J
2.	UNKNOWN	8.74	11	J
3.	UNKNOWN	9.13	8	J
4. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	15.98	20	NJ
5.	LABORATORY ARTIFACT	17.68	14	J
6.	LABORATORY ARTIFACT	19.22	22	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE022

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-16

Sample wt/vol: 5.80(g/mL) G Lab File ID: EE01K-16A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 15 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	24	
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10 ~~4~~	JB
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	2	J
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	1	J
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE022

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-16

Sample wt/vol: 5.80(g/mL) G Lab File ID: EE01K-16A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 15 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	3	J
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	4	J
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	1	J
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE022

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-16

Sample wt/vol: 5.80 (g/mL) G Lab File ID: EE01K-16A56

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. 15 Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 12 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.95	6	J
2.	UNKNOWN	7.23	12	J
3.	UNKNOWN	7.64	9	J
4.	UNKNOWN	8.10	10	J
5.	UNKNOWN	8.35	33	J
6.	UNKNOWN	8.78	29	J
7.	UNKNOWN	9.17	16	J
8.	UNKNOWN	9.86	26	J
9.	UNKNOWN	10.53	20	J
10. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	16.09	7	NJ
11.	LABORATORY ARTIFACT	17.80	6	J
12.	LABORATORY ARTIFACT	19.34	10	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKRP

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6716-2A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	1	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKRP

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6716-2A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (ul) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKRP

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE011

Matrix: (soil/water) SOIL Lab Sample ID: WG6716-2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6716-2A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/07/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 7446-09-5	SULFUR DIOXIDE	3.06	72	NJ
2.	LABORATORY ARTIFACT	16.36	30	J
3.	LABORATORY ARTIFACT	18.12	110	J
4.	LABORATORY ARTIFACT	19.69	20	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKRS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6717-2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6717-2A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	1	J
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	2	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKRS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: WG6717-2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6717-2A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (ul) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKRS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6717-2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6717-2A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/08/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	13.49	5	J
2.	LABORATORY ARTIFACT	16.10	57	J
3.	LABORATORY ARTIFACT	17.80	78	J
4.	LABORATORY ARTIFACT	19.35	9	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKRT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01H

Matrix: (soil/water) SOIL Lab Sample ID: WG6717-3

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6717-3A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/10/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	7	J
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	3	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKRT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6717-3

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6717-3A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/10/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKRT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: WG6717-3

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6717-3A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/10/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	13.40	7	NJ
2. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	15.98	50	NJ ~~AU~~
3.	LABORATORY ARTIFACT	17.68	110	J ~~BU~~
4.	LABORATORY ARTIFACT	19.20	32	J ~~BU~~
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKSJ

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6723-1

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6723-1B55MEOH

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/13/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1300	U
74-87-3	Chloromethane	1300	U
75-01-4	Vinyl Chloride	1300	U
74-83-9	Bromomethane	1300	U
75-00-3	Chloroethane	1300	U
75-69-4	Trichlorofluoromethane	1300	U
75-35-4	1,1-Dichloroethene	1300	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1300	U
67-64-1	Acetone	270	J
75-15-0	Carbon Disulfide	1300	U
79-20-9	Methyl Acetate	1300	U
75-09-2	Methylene Chloride	1300	U
156-60-5	trans-1,2-Dichloroethene	1300	U
1634-04-4	Methyl tert-Butyl Ether	1300	U
75-34-3	1,1-Dichloroethane	1300	U
156-59-2	cis-1,2-Dichloroethene	1300	U
78-93-3	2-Butanone	1300	U
67-66-3	Chloroform	1300	U
71-55-6	1,1,1-Trichloroethane	1300	U
110-82-7	Cyclohexane	1300	U
56-23-5	Carbon Tetrachloride	1300	U
71-43-2	Benzene	1300	U
107-06-2	1,2-Dichloroethane	1300	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKSJ

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6723-1

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6723-1B55MEOH

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/13/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	1300	U
108-87-2	Methylcyclohexane	1300	U
78-87-5	1,2-Dichloropropane	1300	U
75-27-4	Bromodichloromethane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
108-10-1	4-Methyl-2-Pentanone	1300	U
108-88-3	Toluene	1300	U
10061-02-6	trans-1,3-Dichloropropene	1300	U
79-00-5	1,1,2-Trichloroethane	1300	U
127-18-4	Tetrachloroethene	1300	U
591-78-6	2-Hexanone	230	J
124-48-1	Dibromochloromethane	1300	U
106-93-4	1,2-Dibromoethane	1300	U
108-90-7	Chlorobenzene	1300	U
100-41-4	Ethylbenzene	1300	U
1330-20-7	Xylene (Total)	1300	U
100-42-5	Styrene	1300	U
75-25-2	Bromoform	1300	U
98-82-8	Isopropylbenzene	1300	U
79-34-5	1,1,2,2-Tetrachloroethane	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	1300	U
95-50-1	1,2-Dichlorobenzene	1300	U
96-12-8	1,2-Dibromo-3-Chloropropane	130	J
120-82-1	1,2,4-Trichlorobenzene	270	J

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKSJ

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6723-1

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6723-1B55MEO

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/13/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	14.09	2800	J
2.	LABORATORY ARTIFACT	14.18	1000	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKTT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) WATER Lab Sample ID: WG6771-6

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG6771-6B55

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. _____ Date Analyzed: 11/13/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10 ~~2~~	JB
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKTT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) WATER Lab Sample ID: WG6771-6

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG6771-6B55

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. _____ Date Analyzed: 11/13/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKTT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) WATER Lab Sample ID: WG6771-6

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG6771-6B55

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: not dec. _____ Date Analyzed: 11/13/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	14.21	10	JB µ
2. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	17.74	8	NJ
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKSX

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) WATER Lab Sample ID: WG6723-4

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG6723-1B55

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/13/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKSX

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) WATER Lab Sample ID: WG6723-4

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG6723-1B55

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/13/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	2	J
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	J
120-82-1	1,2,4-Trichlorobenzene	2	J

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKSX

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) WATER Lab Sample ID: WG6723-4

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG6723-1B55

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/13/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	14.09	23	J
2.	LABORATORY ARTIFACT	14.18	8	J
3.				
4.				
5.				
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2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	SBLKSY	44	44	43	42	43	38	43	43	0
02	EE01K	49	49	45	49	49	47	49	45	0
03	EE01M	50	54	50	51	53	47	51	47	0
04	EE01P	50	53	57	52	51	51	52	40	0
05	EE01S	65	68	71	67	70	85	66	56	0
06	EE01SDL	49	57	52	51	52	52	51	44	0
07	EE01T	46	50	45	46	47	51	47	45	0
08	EE01Z	51	55	51	51	49	45	51	46	0
09	EE021	64	70	66	64	62	60	64	59	0
10	EE022	67	74	70	67	71	74	70	66	0
11	SBLKTT	46	48	48	44	42	25	44	43	0
12	EE01L	37	38	39	34	35	51	35	33	0
13	EE01R	43	41	45	41	42	44	42	34	0
14	EE01X	44	45	49	45	46	49	46	40	0
15	EE01Y	48	53	49	45	46	68	47	43	0
16	EE01YMS	61	59	51	45	45	56	47	44	0
17	EE01YMSD	37	40	45	35	34	51	35	32	0
18	EE020	38	43	45	40	41	44	41	31	0
19	EE01LDL	42	45	45	38	39	47	39	37	0
20	EE01XDL	58	54	54	50	53	46	52	46	0
21										
22										
23										
24										
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29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Level:(low/med) MED

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	SBLKTI	72	74	73	71	71	77	74	76	0
02	EE01N	67	69	69	52	43	28	58	70	0
03	EE01W	79	77	78	61	53	52	67	79	0
04	EE01WDL	46	49	45	38	32	21	41	50	0
05	SBLKTK	70	74	68	61	62	68	64	70	0
06	EE01Q	46	42	41	33	31	41	35	39	0
07	SBLKUM	26	26*	30	26	25*	25	26	26	2
08	EE01NMS	37	41	43	34	32	37	35	36	0
09	EE01NMSD	32	37	39	27	24*	39	27	29	1
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix Spike - EPA Sample No.: EE01N Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	105600	80290	83830	3*	26- 90
2-Chlorophenol	105600	0.00	46570	44	25-102
N-Nitroso-di-n-prop.(1)	70420	0.00	29360	42	41-126
4-Chloro-3-methylphenol	105600	0.00	42360	40	26-103
Acenaphthene	70420	6476	33620	39	31-137
4-Nitrophenol	105600	0.00	43110	41	11-114
2,4-Dinitrotoluene	70420	0.00	28060	40	28- 89
Pentachlorophenol	105600	0.00	1254	1*	17-109
Pyrene	70420	13020	39610	38	35-142

acbl 12-6-00

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	105600	54770	-24*	* -257	35	26- 90
2-Chlorophenol	105600	38930	37	17	50	25-102
N-Nitroso-di-n-prop.(1)	70420	27670	39*	7	38	41-126
4-Chloro-3-methylphenol	105600	40140	38	5	33	26-103
Acenaphthene	70420	30660	34	14	19	31-137
4-Nitrophenol	105600	59930	57	33	50	11-114
2,4-Dinitrotoluene	70420	28420	40	0	47	28- 89
Pentachlorophenol	105600	4411	4*	120*	47	17-109
Pyrene	70420	37110	34*	11	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 9 outside limits
Spike Recovery: 6 out of 18 outside limits

COMMENTS:

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE-RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix Spike - EPA Sample No.: EE01Y Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	2604	84.49	1607	58	26- 90
2-Chlorophenol	2604	0.00	1602	62	25-102
N-Nitroso-di-n-prop.(1)	1736	0.00	1053	61	41-126
4-Chloro-3-methylphenol	2604	0.00	1668	64	26-103
Acenaphthene	1736	123.7	1455	77	31-137
4-Nitrophenol	2604	0.00	1056	41	11-114
2,4-Dinitrotoluene	1736	0.00	963.2	55	28- 89
Pentachlorophenol	2604	0.00	984.1	38	17-109
Pyrene	1736	1080	2032	55	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	2604	1198	43	30	35	26- 90
2-Chlorophenol	2604	1234	47	28	50	25-102
N-Nitroso-di-n-prop.(1)	1736	794.5	46	28	38	41-126
4-Chloro-3-methylphenol	2604	1216	47	31	33	26-103
Acenaphthene	1736	855.3	42	59*	19	31-137
4-Nitrophenol	2604	1581	61	39	50	11-114
2,4-Dinitrotoluene	1736	736.5	42	27	47	28- 89
Pentachlorophenol	2604	1070	41	8	47	17-109
Pyrene	1736	1573	28*	65*	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 2 out of 9 outside limits
Spike Recovery: 1 out of 18 outside limits

COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKSY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Lab File ID: WG6764-1A66 Lab Sample ID: WG6764-1

Instrument ID: 5972HP66 Date Extracted: 11/07/00

Matrix: (soil/water) SOIL Date Analyzed: 11/08/00

Level:(low/med) LOW Time Analyzed: 1649

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EE01K	EE01K-1	EE01K-1A66	11/08/00
02	EE01M	EE01K-3	EE01K-3A66	11/08/00
03	EE01P	EE01K-5	EE01K-5A66	11/08/00
04	EE01S	EE01K-8	EE01K-8A66	11/08/00
05	EE01SDL	EE01K-8	EE01K-8DB66	11/08/00
06	EE01T	EE01K-9	EE01K-9DB66	11/08/00
07	EE01Z	EE01K-13	EE01K-13B66	11/08/00
08	EE021	EE01K-15	EE01K-15B66	11/09/00
09	EE022	EE01K-16	EE01K-16B66	11/09/00
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COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKTI

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Lab File ID: WG6799-1A66 Lab Sample ID: WG6799-1

Instrument ID: 5972HP66 Date Extracted: 11/07/00

Matrix: (soil/water) SOIL Date Analyzed: 11/09/00

Level:(low/med) MED Time Analyzed: 1052

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EE01N	EE01K-4	EE01K-4A66	11/09/00
02	EE01W	EE01K-10	EE01K-10A66	11/09/00
03	EE01WDL	EE01K-10	EE01K-10DA66	11/09/00
04				
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COMMENTS:

FORM IV SV OLM04.2

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKTT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01..

Lab File ID: WG6850-1A66 Lab Sample ID: WG6850-1

Instrument ID: 5972HP66 Date Extracted: 11/10/00

Matrix: (soil/water) SOIL Date Analyzed: 11/12/00

Level:(low/med) LOW Time Analyzed: 1705

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EE01L	EE01K-2	EE01K-2A66	11/12/00
02	EE01R	EE01K-7	EE01K-7A66	11/12/00
03	EE01X	EE01K-11	EE01K-11A66	11/12/00
04	EE01Y	EE01K-12	EE01K-12A66	11/12/00
05	EE01YMS	WG6850-2	WG6850-2A66	11/12/00
06	EE01YMSD	WG6850-3	WG6850-3A66	11/12/00
07	EE020	EE01K-14	EE01K-14A66	11/12/00
08	EE01LDL	EE01K-2	EE01K-2DA66	11/12/00
09	EE01XDL	EE01K-11	EE01K-11DA66	11/13/00
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COMMENTS:

FORM IV SV OLM04.2

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKUM

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Lab File ID: WG6907-1A66 Lab Sample ID: WG6907-1

Instrument ID: 5972HP66 Date Extracted: 11/14/00

Matrix: (soil/water) SOIL Date Analyzed: 11/15/00

Level:(low/med) MED Time Analyzed: 1610

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EE01NMS	WG6907-2	WG6907-2A66	11/15/00
02	EE01NMSD	WG6907-3	WG6907-3A66	11/15/00
03				
04				
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COMMENTS:

FORM IV SV OLM04.2

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKTK

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01..

Lab File ID: WG6804-1A70 Lab Sample ID: WG6804-1

Instrument ID: 5972HP70 Date Extracted: 11/09/00

Matrix: (soil/water) SOIL Date Analyzed: 11/10/00

Level:(low/med) MED Time Analyzed: 1850

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EE01Q	EE01K-6	EE01K-6JA70	11/10/00
02				
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COMMENTS:

FORM IV SV OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01K

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-1A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 20 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	410	U
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
98-86-2	Acetophenone	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01K

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EEC

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-1A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 20 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

EE01K

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01K-1A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 20 Decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Extraction: (Type) SONC

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 19

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	9.54	380	JB
2.	UNKNOWN	22.27	180	J
3.	UNKNOWN	22.44	130	J
4.	UNKNOWN	22.61	120	J
5.	UNKNOWN	22.73	160	J
6.	UNKNOWN	23.30	380	J
7.	UNKNOWN	23.78	370	J
8.	UNKNOWN	23.93	420	J
9.	METHYLBENZANTHRACENE	24.15	480	J
10.	UNKNOWN	24.42	470	J
11.	UNKNOWN	24.94	270	J
12.	UNKNOWN	25.03	270	J
13.	UNKNOWN	26.86	420	J
14.	UNKNOWN	27.52	180	J
15.	UNKNOWN	28.33	180	J
16.	UNKNOWN	29.36	850	J
17.	UNKNOWN	29.67	160	J
18.	UNKNOWN	30.35	420	J
19.	UNKNOWN	31.92	210	J
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FORM I SV-TIC OLM04.2

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01L

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE(

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-2A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 20 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	410	U
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
98-86-2	Acetophenone	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	73	J
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	200	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01L

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-2A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 20 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	100	J
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	280	J
120-12-7	Anthracene	200	J
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	2000	
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	J
218-01-9	Chrysene	920	
117-81-7	bis(2-Ethylhexyl)phthalate	3500	E
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	180	XJ
207-08-9	Benzo(k)fluoranthene	160	XJ
50-32-8	Benzo(a)pyrene	330	J
193-39-5	Indeno(1,2,3-cd)pyrene	55	J
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	170	J

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE01L

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01K-2A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 20 Decanted: (Y/N) N Date Extracted:11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

Number TICs found: 29 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	17.81	960	J
2.	UNKNOWN	18.03	1400	J
3.	UNKNOWN	18.27	1600	J
4.	UNKNOWN	18.75	1600	J
5.	UNKNOWN	18.88	740	J
6.	UNKNOWN	19.02	1000	J
7. 30995-64-3	METHYLDIBENZOTHIOPHENE	19.29	740	NJ
8.	UNKNOWN	19.36	810	J
9.	UNKNOWN	19.51	1500	J
10.	UNKNOWN	19.69	1600	J
11.	UNKNOWN	19.93	910	J
12.	UNKNOWN	20.12	1100	J
13.	UNKNOWN	20.24	900	J
14.	UNKNOWN	20.30	910	J
15.	UNKNOWN	20.39	1300	J
16. 781-43-1	9,10-DIMETHYLANTHRACENE	20.54	860	NJ
17.	UNKNOWN	20.59	930	J
18.	UNKNOWN	20.78	880	J
19.	UNKNOWN	20.95	1100	J
20.	UNKNOWN	21.05	980	J
21.	UNKNOWN	21.18	1000	J
22.	UNKNOWN	21.30	980	J
23. 3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHY	21.40	720	NJ
24.	UNKNOWN	21.81	790	J
25.	TRIMETHYLPHENANTHRENE	22.00	810	J
26.	UNKNOWN	22.30	750	J
27.	UNKNOWN	22.44	2800	J
28.	UNKNOWN	22.66	2600	J
29.	UNKNOWN	22.73	2900	J
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FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01LDL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-2DA66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 20 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	830	U
108-95-2	Phenol	830	U
111-44-4	bis(2-Chloroethyl)ether	830	U
95-57-8	2-Chlorophenol	830	U
95-48-7	2-Methylphenol	830	U
108-60-1	2,2'-oxybis(1-Chloropropane)	830	U
98-86-2	Acetophenone	830	U
106-44-5	4-Methylphenol	830	U
621-64-7	N-Nitroso-di-n-propylamine	830	U
67-72-1	Hexachloroethane	830	U
98-95-3	Nitrobenzene	830	U
78-59-1	Isophorone	830	U
88-75-5	2-Nitrophenol	830	U
105-67-9	2,4-Dimethylphenol	830	U
111-91-1	bis(2-Chloroethoxy)methane	830	U
120-83-2	2,4-Dichlorophenol	830	U
91-20-3	Naphthalene	830	U
106-47-8	4-Chloroaniline	830	U
87-68-3	Hexachlorobutadiene	830	U
105-60-2	Caprolactam	830	U
59-50-7	4-Chloro-3-methylphenol	830	U
91-57-6	2-Methylnaphthalene	830	U
77-47-4	Hexachlorocyclopentadiene	830	U
88-06-2	2,4,6-Trichlorophenol	830	U
95-95-4	2,4,5-Trichlorophenol	2100	U
92-52-4	1,1'-Biphenyl	830	U
91-58-7	2-Chloronaphthalene	830	U
88-74-4	2-Nitroaniline	2100	U
131-11-3	Dimethylphthalate	830	U
606-20-2	2,6-Dinitrotoluene	830	U
208-96-8	Acenaphthylene	830	U
99-09-2	3-Nitroaniline	2100	U
83-32-9	Acenaphthene	210	DJ

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01LDL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-2DA66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 20 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2100	U
100-02-7	4-Nitrophenol	2100	U
132-64-9	Dibenzofuran	830	U
121-14-2	2,4-Dinitrotoluene	830	U
84-66-2	Diethylphthalate	830	U
86-73-7	Fluorene	130	DJ
7005-72-3	4-Chlorophenyl-phenylether	830	U
100-01-6	4-Nitroaniline	2100	U
534-52-1	4,6-Dinitro-2-methylphenol	2100	U
86-30-6	N-nitrosodiphenylamine (1)	830	U
101-55-3	4-Bromophenyl-phenylether	830	U
118-74-1	Hexachlorobenzene	830	U
1912-24-9	Atrazine	830	U
87-86-5	Pentachlorophenol	2100	U
85-01-8	Phenanthrene	340	DJ
120-12-7	Anthracene	240	DJ
86-74-8	Carbazole	830	U
84-74-2	Di-n-butylphthalate	830	U
206-44-0	Fluoranthene	830	U
129-00-0	Pyrene	2600	D
85-68-7	Butylbenzylphthalate	830	U
91-94-1	3,3'-Dichlorobenzidine	830	U
56-55-3	Benzo(a)anthracene	410	DJ
218-01-9	Chrysene	1200	D
117-81-7	bis(2-Ethylhexyl)phthalate	4300	D
117-84-0	Di-n-octylphthalate	830	U
205-99-2	Benzo(b)fluoranthene	220	DXJ
207-08-9	Benzo(k)fluoranthene	340	DXJ
50-32-8	Benzo(a)pyrene	390	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	130	DJ
53-70-3	Dibenzo(a,h)anthracene	830	U
191-24-2	Benzo(g,h,i)perylene	320	DJ

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

EE01LDL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01K-2DA66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 20 Decanted: (Y/N) N Date Extracted:11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

Number TICs found: 30

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	19.47	4300	JD
2. 832-69-9	PHENANTHRENE, 1-METHYL-	19.67	5400	NJD
3.	UNKNOWN	20.08	4300	JD
4.	UNKNOWN	20.26	4100	JD
5. 1576-67-6	PHENANTHRENE, 3,6-DIMETHYL-	20.35	4900	NJD
6.	UNKNOWN	20.50	3800	JD
7. 5522-01-0	2H-1,4-BENZOTHIAZIN-3(4H)-ON	20.76	4700	NJD
8.	UNKNOWN	20.91	6500	JD
9.	UNKNOWN	21.01	4800	JD
10.	UNKNOWN	21.15	7000	JD
11.	UNKNOWN	21.26	4700	JD
12. 3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHY	21.37	4600	NJD
13.	UNKNOWN	21.64	4600	JD
14.	UNKNOWN	21.77	4700	JD
15.	UNKNOWN	21.86	3900	JD
16. 3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHY	21.96	6300	NJD
17. 3442-78-2	PYRENE, 2-METHYL-	22.03	3400	NJD
18. 3442-78-2	PYRENE, 2-METHYL-	22.21	3400	NJD
19.	UNKNOWN	22.26	5100	JD
20.	UNKNOWN	22.42	3100	JD
21.	UNKNOWN	22.64	3100	JD
22.	UNKNOWN	22.69	2900	JD
23.	UNKNOWN	23.67	4300	JD
24. 2498-77-3	BENZ[A]ANTHRACENE, 1-METHYL-	24.18	2900	NJD
25.	METHYLCHRYSENE	24.45	2700	JD
26. 24964-16-7	BENZO[B]NAPHTHO[2,3-D]THIOPH	24.60	3100	NJD
27.	UNKNOWN	24.72	2700	JD
28.	UNKNOWN	25.06	2400	JD
29.	UNKNOWN	25.24	2500	JD
30.	UNKNOWN	25.45	3300	JD

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01M

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-3A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	390	U
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
98-86-2	Acetophenone	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	990	U
92-52-4	1,1'-Biphenyl	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	990	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	390	U
99-09-2	3-Nitroaniline	990	U
83-32-9	Acenaphthene	390	U

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01M

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-3A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	990	U
100-02-7	4-Nitrophenol	990	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	990	U
534-52-1	4,6-Dinitro-2-methylphenol	990	U
86-30-6	N-nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	990	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE01M

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-3

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01K-3A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 16 Decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CONCENTRATION UNITS:
Number TICs found: 2 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	9.53	300	JB
2.	UNKNOWN	25.18	94	J
3.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01N

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-4

Sample wt/vol: 1.0(g/mL) G Lab File ID: EE01K-4A66

Level: (low/med) MED Date Received: 11/03/00

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	14000	U
108-95-2	Phenol	80000	
111-44-4	bis(2-Chloroethyl)ether	14000	U
95-57-8	2-Chlorophenol	14000	U
95-48-7	2-Methylphenol	2300	J
108-60-1	2,2'-oxybis(1-Chloropropane)	14000	U
98-86-2	Acetophenone	14000	U
106-44-5	4-Methylphenol	30000	
621-64-7	N-Nitroso-di-n-propylamine	14000	U
67-72-1	Hexachloroethane	14000	U
98-95-3	Nitrobenzene	14000	U
78-59-1	Isophorone	14000	U
88-75-5	2-Nitrophenol	14000	U
105-67-9	2,4-Dimethylphenol	2900	J
111-91-1	bis(2-Chloroethoxy)methane	14000	U
120-83-2	2,4-Dichlorophenol	14000	U
91-20-3	Naphthalene	21000	
106-47-8	4-Chloroaniline	14000	U
87-68-3	Hexachlorobutadiene	14000	U
105-60-2	Caprolactam	14000	U
59-50-7	4-Chloro-3-methylphenol	14000	U
91-57-6	2-Methylnaphthalene	94000	
77-47-4	Hexachlorocyclopentadiene	14000	U
88-06-2	2,4,6-Trichlorophenol	14000	U
95-95-4	2,4,5-Trichlorophenol	35000	U
92-52-4	1,1'-Biphenyl	5500	J
91-58-7	2-Chloronaphthalene	14000	U
88-74-4	2-Nitroaniline	35000	U
131-11-3	Dimethylphthalate	14000	U
606-20-2	2,6-Dinitrotoluene	14000	U
208-96-8	Acenaphthylene	14000	U
99-09-2	3-Nitroaniline	35000	U
83-32-9	Acenaphthene	6500	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01N

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-4

Sample wt/vol: 1.0(g/mL) G Lab File ID: EE01K-4A66

Level: (low/med) MED Date Received: 11/03/00

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	35000	U
100-02-7	4-Nitrophenol	35000	U
132-64-9	Dibenzofuran	14000	U
121-14-2	2,4-Dinitrotoluene	14000	U
84-66-2	Diethylphthalate	14000	U
86-73-7	Fluorene	10000	J
7005-72-3	4-Chlorophenyl-phenylether	14000	U
100-01-6	4-Nitroaniline	35000	U
534-52-1	4,6-Dinitro-2-methylphenol	35000	U
86-30-6	N-nitrosodiphenylamine (1)	14000	U
101-55-3	4-Bromophenyl-phenylether	14000	U
118-74-1	Hexachlorobenzene	14000	U
1912-24-9	Atrazine	14000	U
87-86-5	Pentachlorophenol	35000	U
85-01-8	Phenanthrene	24000	
120-12-7	Anthracene	5300	J
86-74-8	Carbazole	14000	U
84-74-2	Di-n-butylphthalate	14000	U
206-44-0	Fluoranthene	3200	J
129-00-0	Pyrene	13000	J
85-68-7	Butylbenzylphthalate	14000	U
91-94-1	3,3'-Dichlorobenzidine	14000	U
56-55-3	Benzo(a)anthracene	7000	J
218-01-9	Chrysene	9800	J
117-81-7	bis(2-Ethylhexyl)phthalate	11000	J
117-84-0	Di-n-octylphthalate	14000	U
205-99-2	Benzo(b)fluoranthene	2800	XJ
207-08-9	Benzo(k)fluoranthene	2900	XJ
50-32-8	Benzo(a)pyrene	5700	J
193-39-5	Indeno(1,2,3-cd)pyrene	2000	J
53-70-3	Dibenzo(a,h)anthracene	3000	J
191-24-2	Benzo(g,h,i)perylene	3100	J

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

EE01N

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-4

Sample wt/vol: 1.0 (g/mL) G Lab File ID: EE01K-4A66

Level: (low/med) MED Date Received: 11/03/00

% Moisture: 29 Decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

Number TICs found: 30

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	14.83	26000	NJ
2. 581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	15.03	28000	NJ
3.	UNKNOWN	15.66	40000	J
4. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	15.84	27000	NJ
5.	SUBSTITUTED BENZENE	15.90	25000	J
6.	UNKNOWN	16.05	40000	J
7. 2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL	16.13	39000	NJ
8.	UNKNOWN	16.22	37000	J
9. 829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL	16.32	30000	NJ
10. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	16.49	26000	NJ
11.	UNKNOWN	16.61	36000	J
12.	UNKNOWN	16.64	31000	J
13.	UNKNOWN	16.78	27000	J
14.	UNKNOWN	16.81	26000	J
15.	UNKNOWN	17.05	28000	J
16.	UNKNOWN	17.25	34000	J
17.	UNKNOWN	17.42	25000	J
18.	UNKNOWN	17.54	26000	J
19.	UNKNOWN	17.88	32000	J
20.	UNKNOWN	17.91	29000	J
21.	UNKNOWN	18.13	34000	J
22.	UNKNOWN	18.27	56000	J
23.	UNKNOWN	18.77	30000	J
24. 7372-88-5	DIBENZOTHIOPHENE, 4-METHYL-	19.11	28000	NJ
25.	UNKNOWN	19.16	37000	J
26. 613-12-7	ANTHRACENE, 2-METHYL-	19.48	45000	NJ
27. 779-02-2	ANTHRACENE, 9-METHYL-	19.64	25000	NJ
28.	UNKNOWN	19.69	29000	J
29.	UNKNOWN	20.06	37000	J
30.	UNKNOWN	20.35	31000	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01NMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: WG6907-2

Sample wt/vol: 1.0(g/mL) G Lab File ID: WG6907-2A66

Level: (low/med) MED Date Received: 11/03/00

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/15/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	14000	U
108-95-2	Phenol	84000	E
111-44-4	bis(2-Chloroethyl)ether	14000	U
95-57-8	2-Chlorophenol	47000	
95-48-7	2-Methylphenol	9400	J
108-60-1	2,2'-oxybis(1-Chloropropane)	14000	U
98-86-2	Acetophenone	14000	U
106-44-5	4-Methylphenol	27000	
621-64-7	N-Nitroso-di-n-propylamine	29000	
67-72-1	Hexachloroethane	14000	U
98-95-3	Nitrobenzene	14000	U
78-59-1	Isophorone	14000	U
88-75-5	2-Nitrophenol	14000	U
105-67-9	2,4-Dimethylphenol	14000	U
111-91-1	bis(2-Chloroethoxy)methane	14000	U
120-83-2	2,4-Dichlorophenol	14000	U
91-20-3	Naphthalene	11000	J
106-47-8	4-Chloroaniline	14000	U
87-68-3	Hexachlorobutadiene	14000	U
105-60-2	Caprolactam	14000	U
59-50-7	4-Chloro-3-methylphenol	42000	
91-57-6	2-Methylnaphthalene	45000	
77-47-4	Hexachlorocyclopentadiene	14000	U
88-06-2	2,4,6-Trichlorophenol	14000	U
95-95-4	2,4,5-Trichlorophenol	35000	U
92-52-4	1,1'-Biphenyl	2700	J
91-58-7	2-Chloronaphthalene	14000	U
88-74-4	2-Nitroaniline	35000	U
131-11-3	Dimethylphthalate	14000	U
606-20-2	2,6-Dinitrotoluene	14000	U
208-96-8	Acenaphthylene	14000	U
99-09-2	3-Nitroaniline	35000	U
83-32-9	Acenaphthene	34000	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01NMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6907-2

Sample wt/vol: 1.0(g/mL) G Lab File ID: WG6907-2A66

Level: (low/med) MED Date Received: 11/03/00

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/15/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	35000	U
100-02-7	4-Nitrophenol	43000	
132-64-9	Dibenzofuran	14000	U
121-14-2	2,4-Dinitrotoluene	28000	
84-66-2	Diethylphthalate	14000	U
86-73-7	Fluorene	14000	U
7005-72-3	4-Chlorophenyl-phenylether	14000	U
100-01-6	4-Nitroaniline	35000	U
534-52-1	4,6-Dinitro-2-methylphenol	35000	U
86-30-6	N-nitrosodiphenylamine (1)	14000	U
101-55-3	4-Bromophenyl-phenylether	14000	U
118-74-1	Hexachlorobenzene	14000	U
1912-24-9	Atrazine	14000	U
87-86-5	Pentachlorophenol	1300	J
85-01-8	Phenanthrene	12000	J
120-12-7	Anthracene	3000	J
86-74-8	Carbazole	2000	J
84-74-2	Di-n-butylphthalate	14000	U
206-44-0	Fluoranthene	14000	U
129-00-0	Pyrene	40000	
85-68-7	Butylbenzylphthalate	860	J
91-94-1	3,3'-Dichlorobenzidine	14000	U
56-55-3	Benzo(a)anthracene	3400	J
218-01-9	Chrysene	5300	J
117-81-7	bis(2-Ethylhexyl)phthalate	7500	J
117-84-0	Di-n-octylphthalate	14000	U
205-99-2	Benzo(b)fluoranthene	1400	JX
207-08-9	Benzo(k)fluoranthene	1500	JX
50-32-8	Benzo(a)pyrene	2800	J
193-39-5	Indeno(1,2,3-cd)pyrene	850	J
53-70-3	Dibenzo(a,h)anthracene	1300	J
191-24-2	Benzo(g,h,i)perylene	2300	J

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01NMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: WG6907-3

Sample wt/vol: 1.0(g/mL) G Lab File ID: WG6907-3A66

Level: (low/med) MED Date Received: 11/03/00

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/15/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	14000	U
108-95-2	Phenol	55000	
111-44-4	bis(2-Chloroethyl)ether	14000	U
95-57-8	2-Chlorophenol	39000	
95-48-7	2-Methylphenol	4600	J
108-60-1	2,2'-oxybis(1-Chloropropane)	14000	U
98-86-2	Acetophenone	14000	U
106-44-5	4-Methylphenol	13000	J
621-64-7	N-Nitroso-di-n-propylamine	28000	
67-72-1	Hexachloroethane	14000	U
98-95-3	Nitrobenzene	14000	U
78-59-1	Isophorone	14000	U
88-75-5	2-Nitrophenol	14000	U
105-67-9	2,4-Dimethylphenol	14000	U
111-91-1	bis(2-Chloroethoxy)methane	14000	U
120-83-2	2,4-Dichlorophenol	14000	U
91-20-3	Naphthalene	5000	J
106-47-8	4-Chloroaniline	14000	U
87-68-3	Hexachlorobutadiene	14000	U
105-60-2	Caprolactam	14000	U
59-50-7	4-Chloro-3-methylphenol	40000	
91-57-6	2-Methylnaphthalene	24000	
77-47-4	Hexachlorocyclopentadiene	14000	U
88-06-2	2,4,6-Trichlorophenol	14000	U
95-95-4	2,4,5-Trichlorophenol	35000	U
92-52-4	1,1'-Biphenyl	1600	J
91-58-7	2-Chloronaphthalene	14000	U
88-74-4	2-Nitroaniline	35000	U
131-11-3	Dimethylphthalate	14000	U
606-20-2	2,6-Dinitrotoluene	14000	U
208-96-8	Acenaphthylene	14000	U
99-09-2	3-Nitroaniline	35000	U
83-32-9	Acenaphthene	31000	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01NMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6907-3

Sample wt/vol: 1.0(g/mL) G Lab File ID: WG6907-3A66

Level: (low/med) MED Date Received: 11/03/00

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/15/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	35000	U
100-02-7	4-Nitrophenol	60000	E
132-64-9	Dibenzofuran	14000	U
121-14-2	2,4-Dinitrotoluene	28000	
84-66-2	Diethylphthalate	14000	U
86-73-7	Fluorene	3000	J
7005-72-3	4-Chlorophenyl-phenylether	14000	U
100-01-6	4-Nitroaniline	35000	U
534-52-1	4,6-Dinitro-2-methylphenol	35000	U
86-30-6	N-nitrosodiphenylamine (1)	14000	U
101-55-3	4-Bromophenyl-phenylether	14000	U
118-74-1	Hexachlorobenzene	14000	U
1912-24-9	Atrazine	14000	U
87-86-5	Pentachlorophenol	4400	J
85-01-8	Phenanthrene	7500	J
120-12-7	Anthracene	1700	J
86-74-8	Carbazole	14000	U
84-74-2	Di-n-butylphthalate	14000	U
206-44-0	Fluoranthene	14000	U
129-00-0	Pyrene	37000	
85-68-7	Butylbenzylphthalate	14000	U
91-94-1	3,3'-Dichlorobenzidine	14000	U
56-55-3	Benzo(a)anthracene	1800	J
218-01-9	Chrysene	2900	J
117-81-7	bis(2-Ethylhexyl)phthalate	4200	J
117-84-0	Di-n-octylphthalate	14000	U
205-99-2	Benzo(b)fluoranthene	840	JX
207-08-9	Benzo(k)fluoranthene	880	JX
50-32-8	Benzo(a)pyrene	1500	J
193-39-5	Indeno(1,2,3-cd)pyrene	800	J
53-70-3	Dibenzo(a,h)anthracene	710	J
191-24-2	Benzo(g,h,i)perylene	1400	J

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01P

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-5A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	460	U
108-95-2	Phenol	460	U
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
98-86-2	Acetophenone	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-di-n-propylamine	460	U
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	460	U
111-91-1	bis(2-Chloroethoxy)methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	460	U
59-50-7	4-Chloro-3-methylphenol	460	U
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	460	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01P

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-5A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	460	U
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
86-73-7	Fluorene	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
1912-24-9	Atrazine	460	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	460	U
120-12-7	Anthracene	460	U
86-74-8	Carbazole	460	U
84-74-2	Di-n-butylphthalate	460	U
206-44-0	Fluoranthene	460	U
129-00-0	Pyrene	460	U
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	460	U
218-01-9	Chrysene	460	U
117-81-7	bis(2-Ethylhexyl)phthalate	460	U
117-84-0	Di-n-octylphthalate	460	U
205-99-2	Benzo(b)fluoranthene	460	U
207-08-9	Benzo(k)fluoranthene	460	U
50-32-8	Benzo(a)pyrene	460	U
193-39-5	Indeno(1,2,3-cd)pyrene	460	U
53-70-3	Dibenzo(a,h)anthracene	460	U
191-24-2	Benzo(g,h,i)perylene	460	U

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE01P

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01K-5A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 29 Decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

ACT 12-6-00

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	9.53	410	JB
2.	UNKNOWN	29.29	570	J
3.				
4.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01Q

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-6

Sample wt/vol: 1.0(g/mL) G Lab File ID: EE01K-6JA70

Level: (low/med) MED Date Received: 11/03/00

% Moisture: 4 decanted: (Y/N) N Date Extracted: 11/09/00

Concentrated Extract Volume: 1500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: ~~1.0~~ 3.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
100-52-7	Benzaldehyde	31000	U
108-95-2	Phenol	31000	U
111-44-4	bis(2-Chloroethyl)ether	31000	U
95-57-8	2-Chlorophenol	31000	U
95-48-7	2-Methylphenol	31000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	31000	U
98-86-2	Acetophenone	31000	U
106-44-5	4-Methylphenol	31000	U
621-64-7	N-Nitroso-di-n-propylamine	31000	U
67-72-1	Hexachloroethane	31000	U
98-95-3	Nitrobenzene	31000	U
78-59-1	Isophorone	31000	U
88-75-5	2-Nitrophenol	31000	U
105-67-9	2,4-Dimethylphenol	31000	U
111-91-1	bis(2-Chloroethoxy)methane	31000	U
120-83-2	2,4-Dichlorophenol	31000	U
91-20-3	Naphthalene	31000	U
106-47-8	4-Chloroaniline	31000	U
87-68-3	Hexachlorobutadiene	31000	U
105-60-2	Caprolactam	31000	U
59-50-7	4-Chloro-3-methylphenol	31000	U
91-57-6	2-Methylnaphthalene	7000	J
77-47-4	Hexachlorocyclopentadiene	31000	U
88-06-2	2,4,6-Trichlorophenol	31000	U
95-95-4	2,4,5-Trichlorophenol	78000	U
92-52-4	1,1'-Biphenyl	31000	U
91-58-7	2-Chloronaphthalene	31000	U
88-74-4	2-Nitroaniline	78000	U
131-11-3	Dimethylphthalate	31000	U
606-20-2	2,6-Dinitrotoluene	31000	U
208-96-8	Acenaphthylene	31000	U
99-09-2	3-Nitroaniline	78000	U
83-32-9	Acenaphthene	31000	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01Q

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-6

Sample wt/vol: 1.0(g/mL) G Lab File ID: EE01K-6JA70

Level: (low/med) MED Date Received: 11/03/00

% Moisture: 4 decanted: (Y/N) N Date Extracted: 11/09/00

Concentrated Extract Volume: 1500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: ~~1.0~~ 3.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	78000	U
100-02-7	4-Nitrophenol	78000	U
132-64-9	Dibenzofuran	31000	U
121-14-2	2,4-Dinitrotoluene	31000	U
84-66-2	Diethylphthalate	31000	U
86-73-7	Fluorene	5500	J
7005-72-3	4-Chlorophenyl-phenylether	31000	U
100-01-6	4-Nitroaniline	78000	U
534-52-1	4,6-Dinitro-2-methylphenol	78000	U
86-30-6	N-nitrosodiphenylamine (1)	31000	U
101-55-3	4-Bromophenyl-phenylether	31000	U
118-74-1	Hexachlorobenzene	31000	U
1912-24-9	Atrazine	31000	U
87-86-5	Pentachlorophenol	78000	U
85-01-8	Phenanthrene	29000	J
120-12-7	Anthracene	31000	U
86-74-8	Carbazole	31000	U
84-74-2	Di-n-butylphthalate	31000	U
206-44-0	Fluoranthene	31000	U
129-00-0	Pyrene	150000	
85-68-7	Butylbenzylphthalate	31000	U
91-94-1	3,3'-Dichlorobenzidine	31000	U
56-55-3	Benzo(a)anthracene	60000	
218-01-9	Chrysene	120000	
117-81-7	bis(2-Ethylhexyl)phthalate	31000	U
117-84-0	Di-n-octylphthalate	31000	U
205-99-2	Benzo(b)fluoranthene	16000	J
207-08-9	Benzo(k)fluoranthene	31000	U
50-32-8	Benzo(a)pyrene	31000	
193-39-5	Indeno(1,2,3-cd)pyrene	7500	J
53-70-3	Dibenzo(a,h)anthracene	8400	J
191-24-2	Benzo(g,h,i)perylene	18000	J

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

EE01Q

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-6

Sample wt/vol: 1.0 (g/mL) G Lab File ID: EE01K-6JA70

Level: (low/med) MED Date Received: 11/03/00

% Moisture: 4 Decanted: (Y/N) N Date Extracted: 11/09/00

Concentrated Extract Volume: 1500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: ~~1.0~~ 3.0 acpt 12-7-00

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

Number TICs found: 30

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	17.59	100000	J
2.	UNKNOWN	18.19	100000	J
3.	UNKNOWN	18.38	130000	J
4.	UNKNOWN	18.52	110000	J
5.	METHYLANTHRACENE	18.79	110000	J
6.	UNKNOWN	19.06	130000	J
7. 1207-15-4	2,8-DIMETHYLDIBENZO(B,D)THIO	19.19	100000	NJ
8. 3674-69-9	PHENANTHRENE, 4,5-DIMETHYL-	19.53	120000	NJ
9. 1576-67-6	PHENANTHRENE, 3,6-DIMETHYL-	19.61	170000	NJ
10. 3674-69-9	PHENANTHRENE, 4,5-DIMETHYL-	19.75	180000	NJ
11.	UNKNOWN	19.80	180000	J
12.	DIMETHYLPHENANTHRENE	19.87	120000	J
13.	UNKNOWN	20.10	150000	J
14.	UNKNOWN	20.21	150000	J
15.	UNKNOWN	20.37	110000	J
16. 3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHY	20.44	140000	NJ
17. 3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHY	20.51	150000	NJ
18.	TRIMETHYLPHENANTHRENE	20.63	140000	J
19.	UNKNOWN	20.68	120000	J
20. 243-17-4	11H-BENZO[B]FLUORENE	20.88	120000	NJ
21.	UNKNOWN	20.98	120000	J
22. 3442-78-2	PYRENE, 2-METHYL-	21.03	150000	NJ
23.	METHYLPYRENE	21.24	140000	J
24.	UNKNOWN	21.41	140000	J
25. 64401-21-4	PYRENE, 1,3-DIMETHYL-	21.74	150000	NJ
26.	UNKNOWN	21.90	150000	J
27. 64401-21-4	PYRENE, 1,3-DIMETHYL-	22.06	140000	NJ
28.	UNKNOWN	22.55	100000	J
29. 3697-24-3	CHRYSENE, 5-METHYL-	22.94	100000	NJ
30.	UNKNOWN	23.94	100000	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01R

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01R

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-7

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-7A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 26 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	450	U
108-95-2	Phenol	450	U
111-44-4	bis(2-Chloroethyl)ether	450	U
95-57-8	2-Chlorophenol	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2'-oxybis(1-Chloropropane)	450	U
98-86-2	Acetophenone	450	U
106-44-5	4-Methylphenol	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
111-91-1	bis(2-Chloroethoxy)methane	450	U
120-83-2	2,4-Dichlorophenol	450	U
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
105-60-2	Caprolactam	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	50	J
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	450	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	450	U
606-20-2	2,6-Dinitrotoluene	450	U
208-96-8	Acenaphthylene	450	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	450	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01R

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-7

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-7A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 26 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	450	U
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
86-73-7	Fluorene	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
1912-24-9	Atrazine	450	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	450	U
120-12-7	Anthracene	450	U
86-74-8	Carbazole	450	U
84-74-2	Di-n-butylphthalate	450	U
206-44-0	Fluoranthene	450	U
129-00-0	Pyrene	450	U
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	450	U
218-01-9	Chrysene	450	U
117-81-7	bis(2-Ethylhexyl)phthalate	450	U
117-84-0	Di-n-octylphthalate	450	U
205-99-2	Benzo(b)fluoranthene	450	U
207-08-9	Benzo(k)fluoranthene	450	U
50-32-8	Benzo(a)pyrene	450	U
193-39-5	Indeno(1,2,3-cd)pyrene	450	U
53-70-3	Dibenzo(a,h)anthracene	450	U
191-24-2	Benzo(g,h,i)perylene	450	U

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE01R

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-7

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01K-7A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 26 Decanted: (Y/N) N Date Extracted:11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Extraction: (Type) SONC

Number TICs found: 14 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	11.42	620	J
2.	UNKNOWN	11.89	650	J
3.	UNKNOWN	12.21	860	J
4.	UNKNOWN	13.33	1400	J
5.	UNKNOWN	13.38	890	J
6.	UNKNOWN	13.53	1300	J
7.	UNKNOWN	14.09	620	J
8.	UNKNOWN	14.24	860	J
9.	UNKNOWN	14.56	730	J
10.	UNKNOWN	14.92	480	J
11.	UNKNOWN	15.02	770	J
12.	UNKNOWN	15.99	310	J
13.	UNKNOWN	16.17	440	J
14.	UNKNOWN	29.18	1800	J
15.				
16.				
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FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01S

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-8

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-8A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	400	U
108-95-2	Phenol	2000	
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	800	
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	400	U
106-44-5	4-Methylphenol	1600	
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	380	J
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	2200	
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	10000	E
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	200	J
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	140	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01S

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-8

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-8A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	420	
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	280	J
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	780	
120-12-7	Anthracene	210	J
86-74-8	Carbazole	75	J
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	78	J
129-00-0	Pyrene	300	J
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	260	J
218-01-9	Chrysene	400	
117-81-7	bis(2-Ethylhexyl)phthalate	74	J
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	240	XJ
207-08-9	Benzo(k)fluoranthene	220	XJ
50-32-8	Benzo(a)pyrene	330	J
193-39-5	Indeno(1,2,3-cd)pyrene	140	J
53-70-3	Dibenzo(a,h)anthracene	180	J
191-24-2	Benzo(g,h,i)perylene	640	

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

EE01S

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-8

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01K-8A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 18 Decanted: (Y/N) N Date Extracted:11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

Number TICs found: 30

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 620-14-4	BENZENE, 1-ETHYL-3-METHYL-	8.55	2500	NJ
2. 95-36-3	1,2,4-TRIMETHYLBENZENE	9.28	2500	NJ
3. 1074-43-7	BENZENE, 1-METHYL-3-PROPYL-	10.48	1500	NJ
4. 90-12-0	NAPHTHALENE, 1-METHYL-	13.86	1700	NJ
5. 1127-76-0	NAPHTHALENE, 1-ETHYL-	14.74	1400	NJ
6. 581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	14.88	3200	NJ
7. 581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	15.03	1800	NJ
8. 2027-17-0	NAPHTHALENE, 2-(1-METHYLETHY	15.88	950	NJ
9.	UNKNOWN	18.27	590	J
10.	UNKNOWN	18.77	950	J
11. 882-33-7	DISULFIDE, DIPHENYL	18.91	730	NJ
12.	UNKNOWN	18.98	660	J
13.	UNKNOWN	19.05	1200	J
14. 16587-52-3	DIBENZOTHIOPHENE, 3-METHYL-	19.16	700	NJ
15.	UNKNOWN	19.20	620	J
16. 7372-88-5	DIBENZOTHIOPHENE, 4-METHYL-	19.32	890	NJ
17.	UNKNOWN	19.38	650	J
18.	UNKNOWN	19.44	660	J
19.	METHYLANTHRACENE	19.49	810	J
20. 1961-96-2	1H-INDENE, 1-PHENYL-	19.54	1100	NJ
21. 832-71-3	PHENANTHRENE, 3-METHYL-	19.60	990	NJ
22.	UNKNOWN	19.72	1900	J
23.	UNKNOWN	19.93	820	J
24.	UNKNOWN	20.11	1100	J
25.	DIMETHYLPHENANTHRENE	20.40	1400	J
26.	UNKNOWN	20.60	870	J
27.	UNKNOWN	20.79	1200	J
28.	UNKNOWN	20.91	1000	J
29.	UNKNOWN	21.11	650	J
30.	UNKNOWN	29.41	1700	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01SDL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-8

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-8DB66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	2000	U
108-95-2	Phenol	1500	DJ
111-44-4	bis(2-Chloroethyl)ether	2000	U
95-57-8	2-Chlorophenol	2000	U
95-48-7	2-Methylphenol	620	DJ
108-60-1	2,2'-oxybis(1-Chloropropane)	2000	U
98-86-2	Acetophenone	2000	U
106-44-5	4-Methylphenol	1300	DJ
621-64-7	N-Nitroso-di-n-propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	320	DJ
111-91-1	bis(2-Chloroethoxy)methane	2000	U
120-83-2	2,4-Dichlorophenol	2000	U
91-20-3	Naphthalene	1900	DJ
106-47-8	4-Chloroaniline	2000	U
87-68-3	Hexachlorobutadiene	2000	U
105-60-2	Caprolactam	2000	U
59-50-7	4-Chloro-3-methylphenol	2000	U
91-57-6	2-Methylnaphthalene	8400	D
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	5100	U
92-52-4	1,1'-Biphenyl	2000	U
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	5100	U
131-11-3	Dimethylphthalate	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U
208-96-8	Acenaphthylene	2000	U
99-09-2	3-Nitroaniline	5100	U
83-32-9	Acenaphthene	2000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01SDL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-8

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-8DB66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	5100	U
100-02-7	4-Nitrophenol	5100	U
132-64-9	Dibenzofuran	310	DJ
121-14-2	2,4-Dinitrotoluene	2000	U
84-66-2	Diethylphthalate	2000	U
86-73-7	Fluorene	240	DJ
7005-72-3	4-Chlorophenyl-phenylether	2000	U
100-01-6	4-Nitroaniline	5100	U
534-52-1	4,6-Dinitro-2-methylphenol	5100	U
86-30-6	N-nitrosodiphenylamine (1)	2000	U
101-55-3	4-Bromophenyl-phenylether	2000	U
118-74-1	Hexachlorobenzene	2000	U
1912-24-9	Atrazine	2000	U
87-86-5	Pentachlorophenol	5100	U
85-01-8	Phenanthrene	570	DJ
120-12-7	Anthracene	2000	U
86-74-8	Carbazole	2000	U
84-74-2	Di-n-butylphthalate	2000	U
206-44-0	Fluoranthene	2000	U
129-00-0	Pyrene	240	DJ
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)anthracene	2000	U
218-01-9	Chrysene	350	DJ
117-81-7	bis(2-Ethylhexyl)phthalate	2000	U
117-84-0	Di-n-octylphthalate	2000	U
205-99-2	Benzo(b)fluoranthene	2000	U
207-08-9	Benzo(k)fluoranthene	2000	U
50-32-8	Benzo(a)pyrene	280	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	2000	U
53-70-3	Dibenzo(a,h)anthracene	2000	U
191-24-2	Benzo(g,h,i)perylene	460	DJ

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE01SDL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-8

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01K-8DB66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 18 Decanted: (Y/N) N Date Extracted:11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

Number TICs found: 23 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	14.85	3800	NJD
2. 2027-17-0	NAPHTHALENE, 2-(1-METHYLETHY	15.86	2500	NJD
3. 829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL	16.32	2400	NJD
4. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	16.45	2500	NJD
5.	UNKNOWN	16.78	2100	JD
6.	UNKNOWN	17.37	1100	JD
7.	UNKNOWN	17.59	1100	JD
8.	UNKNOWN	17.74	1100	JD
9.	UNKNOWN	17.81	1900	JD
10.	UNKNOWN	17.96	1200	JD
11.	UNKNOWN	18.13	1800	JD
12. 132-65-0	DIBENZOTHIOPHENE	18.27	2400	NJD
13.	UNKNOWN	18.77	1500	JD
14. 882-33-7	DISULFIDE, DIPHENYL	18.86	1200	NJD
15.	UNKNOWN	18.93	1900	JD
16.	UNKNOWN	19.01	1700	JD
17. 16587-52-3	DIBENZOTHIOPHENE, 3-METHYL-	19.27	1500	NJD
18.	UNKNOWN	19.49	1500	JD
19. 832-69-9	PHENANTHRENE, 1-METHYL-	19.55	1500	NJD
20.	UNKNOWN	19.69	1600	JD
21.	UNKNOWN	19.89	1200	JD
22.	UNKNOWN	20.06	2300	JD
23. 16587-34-1	NAPHTHO[2,3-B]THIOPHENE, 4,9	20.26	1400	NJD
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

EE01T

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-9

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-9DB66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 19 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 6.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	810	U
108-95-2	Phenol	450	J
111-44-4	bis(2-Chloroethyl)ether	810	U
95-57-8	2-Chlorophenol	810	U
95-48-7	2-Methylphenol	260	J
108-60-1	2,2'-oxybis(1-Chloropropane)	810	U
98-86-2	Acetophenone	810	U
106-44-5	4-Methylphenol	460	J
621-64-7	N-Nitroso-di-n-propylamine	810	U
67-72-1	Hexachloroethane	810	U
98-95-3	Nitrobenzene	810	U
78-59-1	Isophorone	810	U
88-75-5	2-Nitrophenol	810	U
105-67-9	2,4-Dimethylphenol	130	J
111-91-1	bis(2-Chloroethoxy)methane	810	U
120-83-2	2,4-Dichlorophenol	810	U
91-20-3	Naphthalene	960	
106-47-8	4-Chloroaniline	810	U
87-68-3	Hexachlorobutadiene	810	U
105-60-2	Caprolactam	810	U
59-50-7	4-Chloro-3-methylphenol	810	U
91-57-6	2-Methylnaphthalene	2800	
77-47-4	Hexachlorocyclopentadiene	810	U
88-06-2	2,4,6-Trichlorophenol	810	U
95-95-4	2,4,5-Trichlorophenol	2000	U
92-52-4	1,1'-Biphenyl	110	J
91-58-7	2-Chloronaphthalene	810	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	810	U
606-20-2	2,6-Dinitrotoluene	810	U
208-96-8	Acenaphthylene	810	U
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	810	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01T

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-9

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-9DB66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 19 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 6.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	120	J
121-14-2	2,4-Dinitrotoluene	810	U
84-66-2	Diethylphthalate	810	U
86-73-7	Fluorene	85	J
7005-72-3	4-Chlorophenyl-phenylether	810	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
86-30-6	N-nitrosodiphenylamine (1)	810	U
101-55-3	4-Bromophenyl-phenylether	810	U
118-74-1	Hexachlorobenzene	810	U
1912-24-9	Atrazine	810	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	300	J
120-12-7	Anthracene	110	J
86-74-8	Carbazole	810	U
84-74-2	Di-n-butylphthalate	810	U
206-44-0	Fluoranthene	810	U
129-00-0	Pyrene	200	J
85-68-7	Butylbenzylphthalate	810	U
91-94-1	3,3'-Dichlorobenzidine	810	U
56-55-3	Benzo(a)anthracene	160	J
218-01-9	Chrysene	280	J
117-81-7	bis(2-Ethylhexyl)phthalate	810	U
117-84-0	Di-n-octylphthalate	810	U
205-99-2	Benzo(b)fluoranthene	130	XJ
207-08-9	Benzo(k)fluoranthene	140	XJ
50-32-8	Benzo(a)pyrene	190	J
193-39-5	Indeno(1,2,3-cd)pyrene	87	J
53-70-3	Dibenzo(a,h)anthracene	110	J
191-24-2	Benzo(g,h,i)perylene	380	J

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE01T

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-9

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01K-9DB66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 19 Decanted: (Y/N) N Date Extracted:11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 6.9 Extraction: (Type) SONC

Number TICs found: 25

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 95-36-3	1,2,4-TRIMETHYLBENZENE	9.27	1500	NJ
2. 90-12-0	NAPHTHALENE, 1-METHYL-	13.84	730	NJ
3. 1127-76-0	NAPHTHALENE, 1-ETHYL-	14.73	810	NJ
4. 581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	14.85	1200	NJ
5. 571-58-4	NAPHTHALENE, 1,4-DIMETHYL-	15.02	640	NJ
6. 2027-17-0	NAPHTHALENE, 2-(1-METHYLETHY	15.87	1000	NJ
7. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	16.14	950	NJ
8. 2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL	16.33	1000	NJ
9.	UNKNOWN	16.66	1700	J
10.	UNKNOWN	16.78	1600	J
11.	UNKNOWN	16.83	600	J
12.	UNKNOWN	17.33	450	J
13.	UNKNOWN	17.38	980	J
14.	UNKNOWN	17.49	1500	J
15.	UNKNOWN	17.55	890	J
16.	UNKNOWN	17.61	490	J
17.	UNKNOWN	17.66	640	J
18. 613-33-2	4,4'-DIMETHYLBIPHENYL	17.83	1200	NJ
19.	UNKNOWN	17.99	640	J
20.	UNKNOWN	18.02	490	J
21.	UNKNOWN	18.24	1000	J
22.	UNKNOWN	18.63	400	J
23.	UNKNOWN	19.02	620	J
24.	UNKNOWN	19.70	500	J
25. 1576-67-6	PHENANTHRENE, 3,6-DIMETHYL-	20.37	470	NJ
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01W

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-10

Sample wt/vol: 1.0(g/mL) G Lab File ID: EE01K-10A66

Level: (low/med) MED Date Received: 11/03/00

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	12000	U
108-95-2	Phenol	130000	E
111-44-4	bis(2-Chloroethyl)ether	12000	U
95-57-8	2-Chlorophenol	12000	U
95-48-7	2-Methylphenol	4100	J
108-60-1	2,2'-oxybis(1-Chloropropane)	12000	U
98-86-2	Acetophenone	12000	U
106-44-5	4-Methylphenol	51000	
621-64-7	N-Nitroso-di-n-propylamine	12000	U
67-72-1	Hexachloroethane	12000	U
98-95-3	Nitrobenzene	12000	U
78-59-1	Isophorone	12000	U
88-75-5	2-Nitrophenol	12000	U
105-67-9	2,4-Dimethylphenol	12000	U
111-91-1	bis(2-Chloroethoxy)methane	12000	U
120-83-2	2,4-Dichlorophenol	12000	U
91-20-3	Naphthalene	19000	
106-47-8	4-Chloroaniline	12000	U
87-68-3	Hexachlorobutadiene	12000	U
105-60-2	Caprolactam	12000	U
59-50-7	4-Chloro-3-methylphenol	12000	U
91-57-6	2-Methylnaphthalene	100000	E
77-47-4	Hexachlorocyclopentadiene	12000	U
88-06-2	2,4,6-Trichlorophenol	12000	U
95-95-4	2,4,5-Trichlorophenol	30000	U
92-52-4	1,1'-Biphenyl	5100	J
91-58-7	2-Chloronaphthalene	12000	U
88-74-4	2-Nitroaniline	30000	U
131-11-3	Dimethylphthalate	12000	U
606-20-2	2,6-Dinitrotoluene	12000	U
208-96-8	Acenaphthylene	12000	U
99-09-2	3-Nitroaniline	30000	U
83-32-9	Acenaphthene	10000	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01W

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-10

Sample wt/vol: 1.0(g/mL) G Lab File ID: EE01K-10A66

Level: (low/med) MED Date Received: 11/03/00

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	30000	U
100-02-7	4-Nitrophenol	30000	U
132-64-9	Dibenzofuran	12000	U
121-14-2	2,4-Dinitrotoluene	12000	U
84-66-2	Diethylphthalate	12000	U
86-73-7	Fluorene	22000	
7005-72-3	4-Chlorophenyl-phenylether	12000	U
100-01-6	4-Nitroaniline	30000	U
534-52-1	4,6-Dinitro-2-methylphenol	30000	U
86-30-6	N-nitrosodiphenylamine (1)	12000	U
101-55-3	4-Bromophenyl-phenylether	12000	U
118-74-1	Hexachlorobenzene	12000	U
1912-24-9	Atrazine	12000	U
87-86-5	Pentachlorophenol	30000	U
85-01-8	Phenanthrene	35000	
120-12-7	Anthracene	9300	J
86-74-8	Carbazole	4000	J
84-74-2	Di-n-butylphthalate	12000	U
206-44-0	Fluoranthene	2100	J
129-00-0	Pyrene	8000	J
85-68-7	Butylbenzylphthalate	12000	U
91-94-1	3,3'-Dichlorobenzidine	12000	U
56-55-3	Benzo(a)anthracene	6300	J
218-01-9	Chrysene	7300	J
117-81-7	bis(2-Ethylhexyl)phthalate	12000	U
117-84-0	Di-n-octylphthalate	12000	U
205-99-2	Benzo(b)fluoranthene	2900	XJ
207-08-9	Benzo(k)fluoranthene	3100	XJ
50-32-8	Benzo(a)pyrene	6600	J
193-39-5	Indeno(1,2,3-cd)pyrene	2400	J
53-70-3	Dibenzo(a,h)anthracene	4100	J
191-24-2	Benzo(g,h,i)perylene	3800	J

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: EE01W

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-10

Sample wt/vol: 1.0 (g/mL) G Lab File ID: EE01K-10A66

Level: (low/med) MED Date Received: 11/03/00

% Moisture: 18 Decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	1-METHYLNAPHTHALENE	13.83	540000	J
2. 571-61-9	NAPHTHALENE, 1,5-DIMETHYL-	14.86	29000	NJ
3.	UNKNOWN	14.95	27000	J
4. 575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	15.03	31000	NJ
5. 575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	15.07	30000	NJ
6.	UNKNOWN	15.71	41000	J
7.	UNKNOWN	15.79	37000	J
8. 2027-17-0	NAPHTHALENE, 2-(1-METHYLETHY	15.90	38000	NJ
9. 16587-43-2	BENZO[B]THIOPHENE, 2-ETHYL-7	15.93	32000	NJ
10.	UNKNOWN	16.08	45000	J
11.	UNKNOWN	16.12	33000	J
12. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	16.17	35000	NJ
13.	UNKNOWN	16.25	42000	J
14.	UNKNOWN	16.30	29000	J
15. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	16.35	40000	NJ
16.	UNKNOWN	16.49	47000	J
17.	UNKNOWN	16.64	30000	J
18.	UNKNOWN	16.68	30000	J
19.	TRIMETHYLNAPHTHALENE	16.74	34000	J
20.	UNKNOWN	16.79	42000	J
21.	UNKNOWN	16.90	34000	J
22.	UNKNOWN	17.08	30000	J
23.	UNKNOWN	17.28	32000	J
24.	UNKNOWN	17.34	26000	J
25.	UNKNOWN	17.39	25000	J
26.	UNKNOWN	17.57	39000	J
27.	UNKNOWN	17.76	31000	J
28.	UNKNOWN	17.89	36000	J
29.	UNKNOWN	18.15	33000	J
30.	UNKNOWN	18.88	28000	J

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01WDL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-10

Sample wt/vol: 1.0(g/mL) G Lab File ID: EE01K-10DA66

Level: (low/med) MED Date Received: 11/03/00

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	24000	U
108-95-2	Phenol	83000	D
111-44-4	bis(2-Chloroethyl)ether	24000	U
95-57-8	2-Chlorophenol	24000	U
95-48-7	2-Methylphenol	24000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	24000	U
98-86-2	Acetophenone	24000	U
106-44-5	4-Methylphenol	32000	D
621-64-7	N-Nitroso-di-n-propylamine	24000	U
67-72-1	Hexachloroethane	24000	U
98-95-3	Nitrobenzene	24000	U
78-59-1	Isophorone	24000	U
88-75-5	2-Nitrophenol	24000	U
105-67-9	2,4-Dimethylphenol	24000	U
111-91-1	bis(2-Chloroethoxy)methane	24000	U
120-83-2	2,4-Dichlorophenol	24000	U
91-20-3	Naphthalene	12000	DJ
106-47-8	4-Chloroaniline	24000	U
87-68-3	Hexachlorobutadiene	24000	U
105-60-2	Caprolactam	24000	U
59-50-7	4-Chloro-3-methylphenol	24000	U
91-57-6	2-Methylnaphthalene	63000	D
77-47-4	Hexachlorocyclopentadiene	24000	U
88-06-2	2,4,6-Trichlorophenol	24000	U
95-95-4	2,4,5-Trichlorophenol	61000	U
92-52-4	1,1'-Biphenyl	4300	DJ
91-58-7	2-Chloronaphthalene	24000	U
88-74-4	2-Nitroaniline	61000	U
131-11-3	Dimethylphthalate	24000	U
606-20-2	2,6-Dinitrotoluene	24000	U
208-96-8	Acenaphthylene	24000	U
99-09-2	3-Nitroaniline	61000	U
83-32-9	Acenaphthene	7100	DJ

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01WDL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-10

Sample wt/vol: 1.0(g/mL) G Lab File ID: EE01K-10DA66

Level: (low/med) MED Date Received: 11/03/00

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	61000	U
100-02-7	4-Nitrophenol	61000	U
132-64-9	Dibenzofuran	24000	U
121-14-2	2,4-Dinitrotoluene	24000	U
84-66-2	Diethylphthalate	24000	U
86-73-7	Fluorene	12000	DJ
7005-72-3	4-Chlorophenyl-phenylether	24000	U
100-01-6	4-Nitroaniline	61000	U
534-52-1	4,6-Dinitro-2-methylphenol	61000	U
86-30-6	N-nitrosodiphenylamine (1)	24000	U
101-55-3	4-Bromophenyl-phenylether	24000	U
118-74-1	Hexachlorobenzene	24000	U
1912-24-9	Atrazine	24000	U
87-86-5	Pentachlorophenol	61000	U
85-01-8	Phenanthrene	20000	DJ
120-12-7	Anthracene	5200	DJ
86-74-8	Carbazole	2500	DJ
84-74-2	Di-n-butylphthalate	24000	U
206-44-0	Fluoranthene	24000	U
129-00-0	Pyrene	4600	DJ
85-68-7	Butylbenzylphthalate	24000	U
91-94-1	3,3'-Dichlorobenzidine	24000	U
56-55-3	Benzo(a)anthracene	3600	DJ
218-01-9	Chrysene	4400	DJ
117-81-7	bis(2-Ethylhexyl)phthalate	24000	U
117-84-0	Di-n-octylphthalate	24000	U
205-99-2	Benzo(b)fluoranthene	24000	U
207-08-9	Benzo(k)fluoranthene	24000	U
50-32-8	Benzo(a)pyrene	3800	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	24000	U
53-70-3	Dibenzo(a,h)anthracene	3200	DJ
191-24-2	Benzo(g,h,i)perylene	24000	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

EE01WDL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-10

Sample wt/vol: 1.0 (g/mL) G Lab File ID: EE01K-10DA66

Level: (low/med) MED Date Received: 11/03/00

% Moisture: 18 Decanted: (Y/N) N Date Extracted:11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

Number TICs found: 26

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 90-12-0	NAPHTHALENE, 1-METHYL-	13.80	28000	NJD
2. 581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	14.83	33000	NJD
3.	UNKNOWN	14.92	30000	JD
4. 573-98-8	NAPHTHALENE, 1,2-DIMETHYL-	14.99	35000	NJD
5. 581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	15.04	33000	NJD
6.	UNKNOWN	15.44	29000	JD
7.	UNKNOWN	15.73	27000	JD
8. 16587-51-2	BENZO[B]THIOPHENE, 2-ETHYL-5	15.77	32000	NJD
9. 2027-17-0	NAPHTHALENE, 2-(1-METHYLETHY	15.85	36000	NJD
10.	UNKNOWN	15.90	28000	JD
11. 2388-04-7	BENZENE, ETHYLPENTAMETHYL-	16.04	44000	NJD
12. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	16.12	41000	NJD
13.	UNKNOWN	16.21	56000	JD
14. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	16.31	49000	NJD
15.	UNKNOWN	16.44	53000	JD
16.	UNKNOWN	16.59	42000	JD
17.	UNKNOWN	16.65	31000	JD
18.	UNKNOWN	16.71	29000	JD
19.	UNKNOWN	16.76	52000	JD
20.	UNKNOWN	16.87	28000	JD
21.	UNKNOWN	17.04	32000	JD
22.	UNKNOWN	17.24	36000	JD
23.	UNKNOWN	17.29	30000	JD
24.	UNKNOWN	17.53	45000	JD
25. 1730-37-6	9H-FLUORENE, 1-METHYL-	17.80	51000	NJD
26.	UNKNOWN	19.13	29000	JD
27.				
28.				
29.				
30.				

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01X

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-11

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-11A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 22 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	420	U
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
98-86-2	Acetophenone	420	U
106-44-5	4-Methylphenol	46	J
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	89	J
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	420	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01X

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-11

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-11A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 22 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	83	J
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	190	J
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	220	J
129-00-0	Pyrene	990	
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	310	J
218-01-9	Chrysene	550	
117-81-7	bis(2-Ethylhexyl)phthalate	10000	E
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	110	XJ
207-08-9	Benzo(k)fluoranthene	97	XJ
50-32-8	Benzo(a)pyrene	120	J
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	51	J
191-24-2	Benzo(g,h,i)perylene	52	J

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE01X

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01K-11A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 22 Decanted: (Y/N) N Date Extracted:11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	15.05	220	J
2.	UNKNOWN	15.81	320	J
3.	UNKNOWN	16.73	260	J
4.	UNKNOWN	17.76	890	J
5.	DIBENZOTHIOPHENE	18.22	540	J
6.	UNKNOWN	18.72	660	J
7. 7372-88-5	DIBENZOTHIOPHENE, 4-METHYL-	19.06	560	NJ
8.	UNKNOWN	19.59	380	J
9.	UNKNOWN	19.64	570	J
10.	UNKNOWN	19.94	460	J
11. 1207-15-4	2,8-DIMETHYLDIBENZO(B,D)THIO	20.01	490	NJ
12. 3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	20.21	700	NJ
13. 3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	20.32	790	NJ
14. 3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	20.43	580	NJ
15.	UNKNOWN	20.48	450	J
16. 3674-69-9	PHENANTHRENE, 4,5-DIMETHYL-	20.59	400	NJ
17.	UNKNOWN	20.84	370	J
18.	TRIMETHYLPHENANTHRENE	21.30	330	J
19. 2381-21-7	PYRENE, 1-METHYL-	21.94	470	NJ
20. 2422-79-9	BENZ[A]ANTHRACENE, 12-METHYL	24.09	310	NJ
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FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01XDL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-11

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-11DA66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 22 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/13/00

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	2100	U
108-95-2	Phenol	2100	U
111-44-4	bis(2-Chloroethyl)ether	2100	U
95-57-8	2-Chlorophenol	2100	U
95-48-7	2-Methylphenol	2100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2100	U
98-86-2	Acetophenone	2100	U
106-44-5	4-Methylphenol	2100	U
621-64-7	N-Nitroso-di-n-propylamine	2100	U
67-72-1	Hexachloroethane	2100	U
98-95-3	Nitrobenzene	2100	U
78-59-1	Isophorone	2100	U
88-75-5	2-Nitrophenol	2100	U
105-67-9	2,4-Dimethylphenol	2100	U
111-91-1	bis(2-Chloroethoxy)methane	2100	U
120-83-2	2,4-Dichlorophenol	2100	U
91-20-3	Naphthalene	2100	U
106-47-8	4-Chloroaniline	2100	U
87-68-3	Hexachlorobutadiene	2100	U
105-60-2	Caprolactam	2100	U
59-50-7	4-Chloro-3-methylphenol	2100	U
91-57-6	2-Methylnaphthalene	2100	U
77-47-4	Hexachlorocyclopentadiene	2100	U
88-06-2	2,4,6-Trichlorophenol	2100	U
95-95-4	2,4,5-Trichlorophenol	5300	U
92-52-4	1,1'-Biphenyl	2100	U
91-58-7	2-Chloronaphthalene	2100	U
88-74-4	2-Nitroaniline	5300	U
131-11-3	Dimethylphthalate	2100	U
606-20-2	2,6-Dinitrotoluene	2100	U
208-96-8	Acenaphthylene	2100	U
99-09-2	3-Nitroaniline	5300	U
83-32-9	Acenaphthene	2100	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01XDL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-11

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-11DA66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 22 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/13/00

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	5300	U
100-02-7	4-Nitrophenol	5300	U
132-64-9	Dibenzofuran	2100	U
121-14-2	2,4-Dinitrotoluene	2100	U
84-66-2	Diethylphthalate	2100	U
86-73-7	Fluorene	2100	U
7005-72-3	4-Chlorophenyl-phenylether	2100	U
100-01-6	4-Nitroaniline	5300	U
534-52-1	4,6-Dinitro-2-methylphenol	5300	U
86-30-6	N-nitrosodiphenylamine (1)	2100	U
101-55-3	4-Bromophenyl-phenylether	2100	U
118-74-1	Hexachlorobenzene	2100	U
1912-24-9	Atrazine	2100	U
87-86-5	Pentachlorophenol	5300	U
85-01-8	Phenanthrene	250	DJ
120-12-7	Anthracene	2100	U
86-74-8	Carbazole	2100	U
84-74-2	Di-n-butylphthalate	2100	U
206-44-0	Fluoranthene	300	DJ
129-00-0	Pyrene	1200	DJ
85-68-7	Butylbenzylphthalate	2100	U
91-94-1	3,3'-Dichlorobenzidine	2100	U
56-55-3	Benzo(a)anthracene	390	DJ
218-01-9	Chrysene	690	DJ
117-81-7	bis(2-Ethylhexyl)phthalate	14000	D
117-84-0	Di-n-octylphthalate	2100	U
205-99-2	Benzo(b)fluoranthene	2100	U
207-08-9	Benzo(k)fluoranthene	2100	U
50-32-8	Benzo(a)pyrene	2100	U
193-39-5	Indeno(1,2,3-cd)pyrene	2100	U
53-70-3	Dibenzo(a,h)anthracene	2100	U
191-24-2	Benzo(g,h,i)perylene	2100	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

EE01XDL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01K-11DA66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 22 Decanted: (Y/N) N Date Extracted:11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/13/00

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.4 Extraction: (Type) SONC

Number TICs found: 25

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	13.80	990	JD
2.	UNKNOWN	14.49	840	JD
3.	TRIMETHYLNAPHTHALENE	15.79	920	JD
4.	UNKNOWN	16.00	910	JD
5. 2131-41-1	NAPHTHALENE, 1,4,5-TRIMETHYL	16.23	650	NJD
6.	UNKNOWN	16.47	790	JD
7.	UNKNOWN	16.54	670	JD
8.	UNKNOWN	16.76	1200	JD
9.	UNKNOWN	17.00	1200	JD
10.	METHYLFLUORENE	17.66	830	JD
11.	UNKNOWN	17.74	1500	JD
12.	UNKNOWN	18.00	930	JD
13.	UNKNOWN	18.20	860	JD
14.	UNKNOWN	18.67	710	JD
15.	UNKNOWN	18.71	780	JD
16. 16587-52-3	DIBENZOTHIOPHENE, 3-METHYL-	19.05	870	NJD
17.	UNKNOWN	19.59	690	JD
18.	METHYLPHENANTHRENE	19.62	820	JD
19.	UNKNOWN	19.99	760	JD
20. 3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	20.20	1100	NJD
21. 1576-69-8	PHENANTHRENE, 2,7-DIMETHYL-	20.32	1400	NJD
22. 3674-65-5	PHENANTHRENE, 2,3-DIMETHYL-	20.42	1100	NJD
23. 3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	20.57	630	NJD
24. 3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHY	21.21	600	NJD
25. 2381-21-7	PYRENE, 1-METHYL-	21.94	850	NJD
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01Y

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01Y

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-12

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-12A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 4 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	340	U
108-95-2	Phenol	84	J
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
95-48-7	2-Methylphenol	52	J
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U
98-86-2	Acetophenone	340	U
106-44-5	4-Methylphenol	120	J
621-64-7	N-Nitroso-di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
91-20-3	Naphthalene	450	
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
105-60-2	Caprolactam	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	1900	
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	860	U
92-52-4	1,1'-Biphenyl	340	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	860	U
131-11-3	Dimethylphthalate	340	U
606-20-2	2,6-Dinitrotoluene	340	U
208-96-8	Acenaphthylene	340	U
99-09-2	3-Nitroaniline	860	U
83-32-9	Acenaphthene	120	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01Y

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-12

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-12A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 4 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	860	U
100-02-7	4-Nitrophenol	860	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
86-73-7	Fluorene	420	
7005-72-3	4-Chlorophenyl-phenylether	340	U
100-01-6	4-Nitroaniline	860	U
534-52-1	4,6-Dinitro-2-methylphenol	860	U
86-30-6	N-nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
1912-24-9	Atrazine	340	U
87-86-5	Pentachlorophenol	860	U
85-01-8	Phenanthrene	1200	
120-12-7	Anthracene	110	J
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	340	U
206-44-0	Fluoranthene	160	J
129-00-0	Pyrene	1100	
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	340	J
218-01-9	Chrysene	760	
117-81-7	bis(2-Ethylhexyl)phthalate	160	J
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	230	XJ
207-08-9	Benzo(k)fluoranthene	210	XJ
50-32-8	Benzo(a)pyrene	330	J
193-39-5	Indeno(1,2,3-cd)pyrene	100	J
53-70-3	Dibenzo(a,h)anthracene	91	J
191-24-2	Benzo(g,h,i)perylene	220	J

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EE01Y

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01K-12A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 4 Decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	16.80	11000	J
2.	UNKNOWN	17.29	6100	J
3.	UNKNOWN	17.39	7600	J
4.	UNKNOWN	17.48	12000	J
5.	UNKNOWN	17.66	11000	J
6.	UNKNOWN	17.76	7000	J
7.	UNKNOWN	18.00	7100	J
8.	UNKNOWN	18.17	8500	J
9.	UNKNOWN	18.48	7300	J
10.	UNKNOWN	18.68	7200	J
11.	UNKNOWN	18.78	7300	J
12.	UNKNOWN	18.81	7500	J
13. 7372-88-5	DIBENZOTHIOPHENE, 4-METHYL-	19.15	6400	NJ
14.	UNKNOWN	19.20	9200	J
15. 30995-64-3	METHYLDIBENZOTHIOPHENE	19.31	2700	NJ
16.	UNKNOWN	19.41	2200	J
17.	METHYLANTHRACENE	19.47	2800	J
18.	UNKNOWN	19.58	2200	J
19. 468-84-8	3H-NAPHTHO[2,1-B]PYRAN-3-ONE	19.71	4500	NJ
20.	UNKNOWN	19.93	3800	J
21.	DIMETHYLNAPHTHOTHIOPHENE	20.12	3400	J
22. 3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	20.30	2100	NJ
23. 3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	20.54	2600	NJ
24.	UNKNOWN	20.78	3500	J
25.	UNKNOWN	20.93	2000	J
26.	UNKNOWN	21.03	2300	J
27.	UNKNOWN	21.17	2100	J
28.	UNKNOWN	21.30	1900	J
29.	UNKNOWN	22.37	2000	J
30. 24360-63-2	BENZO[B]NAPHTHO[2,3-D]THIOPH	23.78	2300	NJ

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01YMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6850-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG6850-2A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 4 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	340	U
108-95-2	Phenol	1600	
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	1600	
95-48-7	2-Methylphenol	340	U
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U
98-86-2	Acetophenone	340	U
106-44-5	4-Methylphenol	150	J
621-64-7	N-Nitroso-di-n-propylamine	1100	
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
91-20-3	Naphthalene	680	
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
105-60-2	Caprolactam	340	U
59-50-7	4-Chloro-3-methylphenol	1700	
91-57-6	2-Methylnaphthalene	2900	E
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	860	U
92-52-4	1,1'-Biphenyl	340	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	860	U
131-11-3	Dimethylphthalate	340	U
606-20-2	2,6-Dinitrotoluene	340	U
208-96-8	Acenaphthylene	340	U
99-09-2	3-Nitroaniline	860	U
83-32-9	Acenaphthene	1500	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01YMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: WG6850-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG6850-2A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 4 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	860	U
100-02-7	4-Nitrophenol	1100	
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	960	
84-66-2	Diethylphthalate	340	U
86-73-7	Fluorene	520	
7005-72-3	4-Chlorophenyl-phenylether	340	U
100-01-6	4-Nitroaniline	860	U
534-52-1	4,6-Dinitro-2-methylphenol	860	U
86-30-6	N-nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
1912-24-9	Atrazine	340	U
87-86-5	Pentachlorophenol	980	
85-01-8	Phenanthrene	1900	
120-12-7	Anthracene	150	J
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	340	U
206-44-0	Fluoranthene	200	J
129-00-0	Pyrene	2000	
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	440	
218-01-9	Chrysene	920	
117-81-7	bis(2-Ethylhexyl)phthalate	85	J
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	230	XJ
207-08-9	Benzo(k)fluoranthene	210	XJ
50-32-8	Benzo(a)pyrene	330	J
193-39-5	Indeno(1,2,3-cd)pyrene	80	J
53-70-3	Dibenzo(a,h)anthracene	99	J
191-24-2	Benzo(g,h,i)perylene	190	J

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01YMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6850-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG6850-3A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 4 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	340	U
108-95-2	Phenol	1200	
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	1200	
95-48-7	2-Methylphenol	340	U
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U
98-86-2	Acetophenone	340	U
106-44-5	4-Methylphenol	60	J
621-64-7	N-Nitroso-di-n-propylamine	790	
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
91-20-3	Naphthalene	320	J
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
105-60-2	Caprolactam	340	U
59-50-7	4-Chloro-3-methylphenol	1200	
91-57-6	2-Methylnaphthalene	1500	
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	860	U
92-52-4	1,1'-Biphenyl	340	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	860	U
131-11-3	Dimethylphthalate	340	U
606-20-2	2,6-Dinitrotoluene	340	U
208-96-8	Acenaphthylene	340	U
99-09-2	3-Nitroaniline	860	U
83-32-9	Acenaphthene	860	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE01YMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: WG6850-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG6850-3A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 4 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	860	U
100-02-7	4-Nitrophenol	1600	
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	740	
84-66-2	Diethylphthalate	340	U
86-73-7	Fluorene	310	J
7005-72-3	4-Chlorophenyl-phenylether	340	U
100-01-6	4-Nitroaniline	860	U
534-52-1	4,6-Dinitro-2-methylphenol	860	U
86-30-6	N-nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
1912-24-9	Atrazine	340	U
87-86-5	Pentachlorophenol	1100	
85-01-8	Phenanthrene	1000	
120-12-7	Anthracene	95	J
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	340	U
206-44-0	Fluoranthene	110	J
129-00-0	Pyrene	1600	
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	210	J
218-01-9	Chrysene	430	
117-81-7	bis(2-Ethylhexyl)phthalate	48	J
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	120	XJ
207-08-9	Benzo(k)fluoranthene	110	XJ
50-32-8	Benzo(a)pyrene	170	J
193-39-5	Indeno(1,2,3-cd)pyrene	58	J
53-70-3	Dibenzo(a,h)anthracene	54	J
191-24-2	Benzo(g,h,i)perylene	120	J

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01Z

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-13

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-13B66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 27 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	450	U
108-95-2	Phenol	450	U
111-44-4	bis(2-Chloroethyl)ether	450	U
95-57-8	2-Chlorophenol	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2'-oxybis(1-Chloropropane)	450	U
98-86-2	Acetophenone	450	U
106-44-5	4-Methylphenol	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
111-91-1	bis(2-Chloroethoxy)methane	450	U
120-83-2	2,4-Dichlorophenol	450	U
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
105-60-2	Caprolactam	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	450	U
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	450	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	450	U
606-20-2	2,6-Dinitrotoluene	450	U
208-96-8	Acenaphthylene	450	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	450	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01Z

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-13

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-13B66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 27 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	450	U
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
86-73-7	Fluorene	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
1912-24-9	Atrazine	450	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	450	U
120-12-7	Anthracene	450	U
86-74-8	Carbazole	450	U
84-74-2	Di-n-butylphthalate	450	U
206-44-0	Fluoranthene	450	U
129-00-0	Pyrene	450	U
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	450	U
218-01-9	Chrysene	450	U
117-81-7	bis(2-Ethylhexyl)phthalate	450	U
117-84-0	Di-n-octylphthalate	450	U
205-99-2	Benzo(b)fluoranthene	450	U
207-08-9	Benzo(k)fluoranthene	450	U
50-32-8	Benzo(a)pyrene	450	U
193-39-5	Indeno(1,2,3-cd)pyrene	450	U
53-70-3	Dibenzo(a,h)anthracene	450	U
191-24-2	Benzo(g,h,i)perylene	450	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE01Z

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01K-13B66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 27 Decanted: (Y/N) N Date Extracted:11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 4

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.37	92	J
2.	UNKNOWN (BC)	9.55	270	JB
3.	UNKNOWN AMIDE	24.84	140	J
4.	UNKNOWN	29.30	95	J
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FORM I SV-TIC OLM04.2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE020

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-14

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-14A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 25 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	440	U
108-95-2	Phenol	440	U
111-44-4	bis(2-Chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
98-86-2	Acetophenone	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
105-60-2	Caprolactam	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	440	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	440	U
606-20-2	2,6-Dinitrotoluene	440	U
208-96-8	Acenaphthylene	440	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	440	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE020

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-14

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-14A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 25 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
86-73-7	Fluorene	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
1912-24-9	Atrazine	440	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	440	U
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	440	U
129-00-0	Pyrene	110	J
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	440	U
218-01-9	Chrysene	74	J
117-81-7	bis(2-Ethylhexyl)phthalate	45	J
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenzo(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EE020

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01K-14A66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 25 Decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

Number TICs found: 17

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	17.12	260	J
2.	UNKNOWN	17.67	250	J
3.	UNKNOWN	17.76	490	J
4.	UNKNOWN	17.91	270	J
5.	UNKNOWN	18.22	830	J
6.	UNKNOWN	18.55	290	J
7.	UNKNOWN	18.71	550	J
8. 16587-52-3	DIBENZOTHIOPHENE, 3-METHYL-	19.06	270	NJ
9.	UNKNOWN	19.11	530	J
10.	METHYLDIBENZOTHIOPHENE	19.22	290	J
11.	UNKNOWN	19.40	600	J
12.	UNKNOWN	19.49	330	J
13.	DIMETHYLDIBENZOTHIOPHENE	19.84	340	J
14.	UNKNOWN	19.94	250	J
15.	DIMETHYLNAPHTHOTHIOPHENE	20.01	440	J
16.	UNKNOWN	20.10	260	J
17.	UNKNOWN	20.21	430	J
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FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE021

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-15

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-15B66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 6 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	350	U
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
98-86-2	Acetophenone	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
105-60-2	Caprolactam	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	880	U
92-52-4	1,1'-Biphenyl	350	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	880	U
131-11-3	Dimethylphthalate	350	U
606-20-2	2,6-Dinitrotoluene	350	U
208-96-8	Acenaphthylene	350	U
99-09-2	3-Nitroaniline	880	U
83-32-9	Acenaphthene	350	U

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EE021

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-15

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-15B66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 6 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	880	U
100-02-7	4-Nitrophenol	880	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
86-73-7	Fluorene	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
100-01-6	4-Nitroaniline	880	U
534-52-1	4,6-Dinitro-2-methylphenol	880	U
86-30-6	N-nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
1912-24-9	Atrazine	350	U
87-86-5	Pentachlorophenol	880	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	73	J
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE021

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01K-15B66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 6 Decanted: (Y/N) N Date Extracted:11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 6

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	9.55	330	JB
2.	UNKNOWN	9.94	96	J
3. 57-10-3	HEXADECANOIC ACID	19.52	140	NJ
4. 57-11-4	OCTADECANOIC ACID	20.98	120	NJ
5.	UNKNOWN	24.08	79	J
6.	UNKNOWN	24.43	79	J
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FORM I SV-TIC OLM04.2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE022

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-16

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-16B66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	390	U
108-95-2	Phenol	100	J
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	58	J
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
98-86-2	Acetophenone	390	U
106-44-5	4-Methylphenol	110	J
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	180	J
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	650	
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	980	U
92-52-4	1,1'-Biphenyl	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	980	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	390	U
99-09-2	3-Nitroaniline	980	U
83-32-9	Acenaphthene	390	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE022

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-16

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE01K-16B66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	980	U
100-02-7	4-Nitrophenol	980	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	980	U
534-52-1	4,6-Dinitro-2-methylphenol	980	U
86-30-6	N-nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	980	U
85-01-8	Phenanthrene	160	J
120-12-7	Anthracene	70	J
86-74-8	Carbazole	43	J
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	220	J
129-00-0	Pyrene	230	J
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	160	J
218-01-9	Chrysene	190	J
117-81-7	bis(2-Ethylhexyl)phthalate	69	J
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	130	J
207-08-9	Benzo(k)fluoranthene	120	J
50-32-8	Benzo(a)pyrene	100	J
193-39-5	Indeno(1,2,3-cd)pyrene	86	J
53-70-3	Dibenzo(a,h)anthracene	56	J
191-24-2	Benzo(g,h,i)perylene	190	J

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE022

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE01K-16B66

Level: (low/med) LOW Date Received: 11/03/00

% Moisture: 15 Decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

Number TICs found: 25 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 112-80-1	OLEIC ACID	19.46	1500	NJ
2.	UNKNOWN	19.64	1400	J
3.	UNKNOWN	20.10	1600	J
4. 7459-33-8	9,12-OCTADECADIENOYL CHLORID	20.90	1500	NJ
5. 3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHY	21.37	440	NJ
6.	UNKNOWN	21.79	310	J
7.	UNKNOWN	22.01	420	J
8.	UNKNOWN	22.18	360	J
9.	UNKNOWN	22.29	320	J
10.	UNKNOWN	22.37	310	J
11.	UNKNOWN	22.42	250	J
12.	UNKNOWN	22.62	410	J
13.	UNKNOWN	22.74	260	J
14.	UNKNOWN	22.81	310	J
15. 239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPH	22.98	260	NJ
16.	UNKNOWN	23.32	480	J
17.	UNKNOWN	23.79	390	J
18. 3697-24-3	CHRYSENE, 5-METHYL-	24.18	390	NJ
19.	UNKNOWN	24.37	390	J
20.	UNKNOWN	24.49	440	J
21.	UNKNOWN	25.27	550	J
22.	UNKNOWN	25.71	520	J
23.	UNKNOWN	26.72	610	J
24.	UNKNOWN	27.16	460	J
25.	UNKNOWN	27.60	470	J
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FORM I SV-TIC OLM04.2

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKSY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6764-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG6764-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKSY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EEC

Matrix: (soil/water) SOIL Lab Sample ID: WG6764-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG6764-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKSY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6764-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: WG6764-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/08/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Extraction: (Type) SONC

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	9.54	130	J
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EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKTI

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: WG6799-1

Sample wt/vol: 1.0(g/mL) G Lab File ID: WG6799-1A66

Level: (low/med) MED Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	10000	U
108-95-2	Phenol	10000	U
111-44-4	bis(2-Chloroethyl)ether	10000	U
95-57-8	2-Chlorophenol	10000	U
95-48-7	2-Methylphenol	10000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10000	U
98-86-2	Acetophenone	10000	U
106-44-5	4-Methylphenol	10000	U
621-64-7	N-Nitroso-di-n-propylamine	10000	U
67-72-1	Hexachloroethane	10000	U
98-95-3	Nitrobenzene	10000	U
78-59-1	Isophorone	10000	U
88-75-5	2-Nitrophenol	10000	U
105-67-9	2,4-Dimethylphenol	10000	U
111-91-1	bis(2-Chloroethoxy)methane	10000	U
120-83-2	2,4-Dichlorophenol	10000	U
91-20-3	Naphthalene	10000	U
106-47-8	4-Chloroaniline	10000	U
87-68-3	Hexachlorobutadiene	10000	U
105-60-2	Caprolactam	10000	U
59-50-7	4-Chloro-3-methylphenol	10000	U
91-57-6	2-Methylnaphthalene	10000	U
77-47-4	Hexachlorocyclopentadiene	10000	U
88-06-2	2,4,6-Trichlorophenol	10000	U
95-95-4	2,4,5-Trichlorophenol	25000	U
92-52-4	1,1'-Biphenyl	10000	U
91-58-7	2-Chloronaphthalene	10000	U
88-74-4	2-Nitroaniline	25000	U
131-11-3	Dimethylphthalate	10000	U
606-20-2	2,6-Dinitrotoluene	10000	U
208-96-8	Acenaphthylene	10000	U
99-09-2	3-Nitroaniline	25000	U
83-32-9	Acenaphthene	10000	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKTI

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6799-1

Sample wt/vol: 1.0(g/mL) G Lab File ID: WG6799-1A66

Level: (low/med) MED Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	25000	U
100-02-7	4-Nitrophenol	25000	U
132-64-9	Dibenzofuran	10000	U
121-14-2	2,4-Dinitrotoluene	10000	U
84-66-2	Diethylphthalate	10000	U
86-73-7	Fluorene	10000	U
7005-72-3	4-Chlorophenyl-phenylether	10000	U
100-01-6	4-Nitroaniline	25000	U
534-52-1	4,6-Dinitro-2-methylphenol	25000	U
86-30-6	N-nitrosodiphenylamine (1)	10000	U
101-55-3	4-Bromophenyl-phenylether	10000	U
118-74-1	Hexachlorobenzene	10000	U
1912-24-9	Atrazine	10000	U
87-86-5	Pentachlorophenol	25000	U
85-01-8	Phenanthrene	10000	U
120-12-7	Anthracene	10000	U
86-74-8	Carbazole	10000	U
84-74-2	Di-n-butylphthalate	10000	U
206-44-0	Fluoranthene	10000	U
129-00-0	Pyrene	10000	U
85-68-7	Butylbenzylphthalate	10000	U
91-94-1	3,3'-Dichlorobenzidine	10000	U
56-55-3	Benzo(a)anthracene	10000	U
218-01-9	Chrysene	10000	U
117-81-7	bis(2-Ethylhexyl)phthalate	10000	U
117-84-0	Di-n-octylphthalate	10000	U
205-99-2	Benzo(b)fluoranthene	10000	U
207-08-9	Benzo(k)fluoranthene	10000	U
50-32-8	Benzo(a)pyrene	10000	U
193-39-5	Indeno(1,2,3-cd)pyrene	10000	U
53-70-3	Dibenzo(a,h)anthracene	10000	U
191-24-2	Benzo(g,h,i)perylene	10000	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLKTI

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: WG6799-1

Sample wt/vol: 1.0 (g/mL) G Lab File ID: WG6799-1A66

Level: (low/med) MED Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/07/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/09/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Extraction: (Type) SONC

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I SV-TIC OLM04.2

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKTK

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6804-1

Sample wt/vol: 1.0(g/mL) G Lab File ID: WG6804-1A70

Level: (low/med) MED Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/09/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	10000	U
108-95-2	Phenol	10000	U
111-44-4	bis(2-Chloroethyl)ether	10000	U
95-57-8	2-Chlorophenol	10000	U
95-48-7	2-Methylphenol	10000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10000	U
98-86-2	Acetophenone	10000	U
106-44-5	4-Methylphenol	10000	U
621-64-7	N-Nitroso-di-n-propylamine	10000	U
67-72-1	Hexachloroethane	10000	U
98-95-3	Nitrobenzene	10000	U
78-59-1	Isophorone	10000	U
88-75-5	2-Nitrophenol	10000	U
105-67-9	2,4-Dimethylphenol	10000	U
111-91-1	bis(2-Chloroethoxy)methane	10000	U
120-83-2	2,4-Dichlorophenol	10000	U
91-20-3	Naphthalene	10000	U
106-47-8	4-Chloroaniline	10000	U
87-68-3	Hexachlorobutadiene	10000	U
105-60-2	Caprolactam	10000	U
59-50-7	4-Chloro-3-methylphenol	10000	U
91-57-6	2-Methylnaphthalene	10000	U
77-47-4	Hexachlorocyclopentadiene	10000	U
88-06-2	2,4,6-Trichlorophenol	10000	U
95-95-4	2,4,5-Trichlorophenol	25000	U
92-52-4	1,1'-Biphenyl	10000	U
91-58-7	2-Chloronaphthalene	10000	U
88-74-4	2-Nitroaniline	25000	U
131-11-3	Dimethylphthalate	10000	U
606-20-2	2,6-Dinitrotoluene	10000	U
208-96-8	Acenaphthylene	10000	U
99-09-2	3-Nitroaniline	25000	U
83-32-9	Acenaphthene	10000	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKTK

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: WG6804-1

Sample wt/vol: 1.0(g/mL) G Lab File ID: WG6804-1A70

Level: (low/med) MED Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/09/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	25000	U
100-02-7	4-Nitrophenol	25000	U
132-64-9	Dibenzofuran	10000	U
121-14-2	2,4-Dinitrotoluene	10000	U
84-66-2	Diethylphthalate	10000	U
86-73-7	Fluorene	10000	U
7005-72-3	4-Chlorophenyl-phenylether	10000	U
100-01-6	4-Nitroaniline	25000	U
534-52-1	4,6-Dinitro-2-methylphenol	25000	U
86-30-6	N-nitrosodiphenylamine (1)	10000	U
101-55-3	4-Bromophenyl-phenylether	10000	U
118-74-1	Hexachlorobenzene	10000	U
1912-24-9	Atrazine	10000	U
87-86-5	Pentachlorophenol	25000	U
85-01-8	Phenanthrene	10000	U
120-12-7	Anthracene	10000	U
86-74-8	Carbazole	10000	U
84-74-2	Di-n-butylphthalate	10000	U
206-44-0	Fluoranthene	10000	U
129-00-0	Pyrene	10000	U
85-68-7	Butylbenzylphthalate	10000	U
91-94-1	3,3'-Dichlorobenzidine	10000	U
56-55-3	Benzo(a)anthracene	10000	U
218-01-9	Chrysene	10000	U
117-81-7	bis(2-Ethylhexyl)phthalate	10000	U
117-84-0	Di-n-octylphthalate	10000	U
205-99-2	Benzo(b)fluoranthene	10000	U
207-08-9	Benzo(k)fluoranthene	10000	U
50-32-8	Benzo(a)pyrene	10000	U
193-39-5	Indeno(1,2,3-cd)pyrene	10000	U
53-70-3	Dibenzo(a,h)anthracene	10000	U
191-24-2	Benzo(g,h,i)perylene	10000	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKTK

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6804-1

Sample wt/vol: 1.0 (g/mL) G Lab File ID: WG6804-1A70

Level: (low/med) MED Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/09/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/10/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Extraction: (Type) SONC

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKTT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: WG6850-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG6850-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKTT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6850-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG6850-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKTT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: WG6850-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: WG6850-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/10/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/12/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Extraction: (Type) SONC

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	9.45	220	J
2.	UNKNOWN (BC)	10.65	77	J
3.	UNKNOWN (BC)	31.89	87	J
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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKUM

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6907-1

Sample wt/vol: 1.0(g/mL) G Lab File ID: WG6907-1A66

Level: (low/med) MED Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/15/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	10000	U
108-95-2	Phenol	10000	U
111-44-4	bis(2-Chloroethyl)ether	10000	U
95-57-8	2-Chlorophenol	10000	U
95-48-7	2-Methylphenol	10000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10000	U
98-86-2	Acetophenone	10000	U
106-44-5	4-Methylphenol	10000	U
621-64-7	N-Nitroso-di-n-propylamine	10000	U
67-72-1	Hexachloroethane	10000	U
98-95-3	Nitrobenzene	10000	U
78-59-1	Isophorone	10000	U
88-75-5	2-Nitrophenol	10000	U
105-67-9	2,4-Dimethylphenol	10000	U
111-91-1	bis(2-Chloroethoxy)methane	10000	U
120-83-2	2,4-Dichlorophenol	10000	U
91-20-3	Naphthalene	10000	U
106-47-8	4-Chloroaniline	10000	U
87-68-3	Hexachlorobutadiene	10000	U
105-60-2	Caprolactam	10000	U
59-50-7	4-Chloro-3-methylphenol	10000	U
91-57-6	2-Methylnaphthalene	10000	U
77-47-4	Hexachlorocyclopentadiene	10000	U
88-06-2	2,4,6-Trichlorophenol	10000	U
95-95-4	2,4,5-Trichlorophenol	25000	U
92-52-4	1,1'-Biphenyl	10000	U
91-58-7	2-Chloronaphthalene	10000	U
88-74-4	2-Nitroaniline	25000	U
131-11-3	Dimethylphthalate	10000	U
606-20-2	2,6-Dinitrotoluene	10000	U
208-96-8	Acenaphthylene	10000	U
99-09-2	3-Nitroaniline	25000	U
83-32-9	Acenaphthene	10000	U

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKUM

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: WG6907-1

Sample wt/vol: 1.0(g/mL) G Lab File ID: WG6907-1A66

Level: (low/med) MED Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/15/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	25000	U
100-02-7	4-Nitrophenol	25000	U
132-64-9	Dibenzofuran	10000	U
121-14-2	2,4-Dinitrotoluene	10000	U
84-66-2	Diethylphthalate	10000	U
86-73-7	Fluorene	10000	U
7005-72-3	4-Chlorophenyl-phenylether	10000	U
100-01-6	4-Nitroaniline	25000	U
534-52-1	4,6-Dinitro-2-methylphenol	25000	U
86-30-6	N-nitrosodiphenylamine (1)	10000	U
101-55-3	4-Bromophenyl-phenylether	10000	U
118-74-1	Hexachlorobenzene	10000	U
1912-24-9	Atrazine	10000	U
87-86-5	Pentachlorophenol	25000	U
85-01-8	Phenanthrene	10000	U
120-12-7	Anthracene	10000	U
86-74-8	Carbazole	10000	U
84-74-2	Di-n-butylphthalate	10000	U
206-44-0	Fluoranthene	10000	U
129-00-0	Pyrene	10000	U
85-68-7	Butylbenzylphthalate	10000	U
91-94-1	3,3'-Dichlorobenzidine	10000	U
56-55-3	Benzo(a)anthracene	10000	U
218-01-9	Chrysene	10000	U
117-81-7	bis(2-Ethylhexyl)phthalate	10000	U
117-84-0	Di-n-octylphthalate	10000	U
205-99-2	Benzo(b)fluoranthene	10000	U
207-08-9	Benzo(k)fluoranthene	10000	U
50-32-8	Benzo(a)pyrene	10000	U
193-39-5	Indeno(1,2,3-cd)pyrene	10000	U
53-70-3	Dibenzo(a,h)anthracene	10000	U
191-24-2	Benzo(g,h,i)perylene	10000	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SBLKUM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6907-1

Sample wt/vol: 1.0 (g/mL) G Lab File ID: WG6907-1A66

Level: (low/med) MED Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/14/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/15/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Extraction: (Type) SONC

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN AMINE (BC)	18.54	1400	J
2.	UNKNOWN AMIDE (BC)	24.62	1200	J
3.	UNKNOWN (BC)	26.11	2400	J
4.	UNKNOWN (BC)	29.39	12000	J
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2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01K

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2 ID:0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKSZ	108	131	108	108			0
02	EE01YMS	107	100	129	207*			1
03	EE01YMSD	121	79	107	157*			1
04	EE01K	94	100	124	129			0
05	EE01L	82	106	118	135			0
06	EE01M	100	106	100	119			0
07	EE01P	116	126	121	132			0
08	EE01R	83	94	111	144			0
09	EE01S	119	144	169*	100			1
10	EE01T	113	113	238*	194*			2
11	EE01X	100	112	159*	235*			2
12	EE01Z	128	128	117	256*			1
13	EE020	100	106	150	183*			1
14	EE021	100	107	121	129			0
15	EE022	100	113	1313*	169*			2
16	EE01N	947*	1789*	358*	263*			4
17	EE01QDL	* 171D	46	* 3714D	* 5357D			3 ~~0~~
18	EE01WDL	* 1625D	* 813D	* 1000D	* 5500D			4 ~~0~~
19	EE01YDL	* 221D	114	* 221D	* 2143D			3 ~~0~~
20	EE01Q	93	* 18D	* 1071D	* 10000D			3 ~~0~~
21	EE01W	* 0D	* 5688D	* 1000D	* 625D			4 ~~0~~
22	EE01Y	* 214D	86	* 536D	* 1857D			3 ~~0~~
23	EE01TDL	69	88	106	63			0
24	EE022DL	88	100	* 431D	119			1 ~~0~~
25	EE01NDL	* 1368D	* 0D	* 289D	* 2158D			4 ~~0~~
26								
27								
28								
29								
30								

acct 12-6-00

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01K

Matrix Spike - EPA Sample No.: EE01Y

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	17	3.1	13	58	46-127
Heptachlor	17	0.0	11	65	35-130
Aldrin	17	15	12	-18*	34-132
Dieldrin	35	58	30	-80*	31-134
Endrin	35	110	33	-220*	42-139
4,4'-DDT	35	0.0	35	100	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	17	11	46	23	50	46-127
Heptachlor	17	8.8	52	22	31	35-130
Aldrin	17	6.4	-51*	-96	43	34-132
Dieldrin	35	33	-71*	-12	38	31-134
Endrin	35	72	-109*	-67	45	42-139
4,4'-DDT	35	30	86	15	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 6 out of 12 outside limits

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKSZ

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01K

Lab Sample ID: WG6766-1 Lab File ID: _____

Matrix (soil/water) SOIL Extraction:(Type) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 11/07/00

Date Analyzed (1): 11/16/00 Date Analyzed (2): 11/16/00

Time Analyzed (1): 1033 Time Analyzed (2): 1033

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC83

GC Column (1): CLPEST ID: 0.53(mm) GC Column (2): CLPEST2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EE01YMS	WG6766-2	11/16/00	11/16/00
02	EE01YMSD	WG6766-3	11/16/00	11/16/00
03	EE01K	EE01K-1	11/16/00	11/16/00
04	EE01L	EE01K-2	11/16/00	11/16/00
05	EE01M	EE01K-3	11/16/00	11/16/00
06	EE01P	EE01K-5	11/16/00	11/16/00
07	EE01R	EE01K-7	11/16/00	11/16/00
08	EE01S	EE01K-8	11/16/00	11/16/00
09	EE01T	EE01K-9	11/16/00	11/16/00
10	EE01X	EE01K-11	11/16/00	11/16/00
11	EE01Z	EE01K-13	11/16/00	11/16/00
12	EE020	EE01K-14	11/16/00	11/16/00
13	EE021	EE01K-15	11/16/00	11/16/00
14	EE022	EE01K-16	11/16/00	11/16/00
15	EE01N	EE01K-4	11/16/00	11/16/00
16	EE01QDL	EE01K-6	11/16/00	11/16/00
17	EE01WDL	EE01K-10	11/16/00	11/16/00
18	EE01YDL	EE01K-12	11/16/00	11/16/00
19	EE01Q	EE01K-6	11/16/00	11/16/00
20	EE01W	EE01K-10	11/16/00	11/16/00
21	EE01Y	EE01K-12	11/16/00	11/16/00
22	EE01TDL	EE01K-9	11/17/00	11/17/00
23	EE022DL	EE01K-16	11/17/00	11/17/00
24	EE01NDL	EE01K-4	11/17/00	11/17/00
25				
26				

COMMENTS: _____

FORM IV PEST OLM04.2

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01K

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 20 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	84	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01L

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 20 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00 % D between columns > 25 ACH 12-7-00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1 ~~0.19~~	JP U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	1.9	JP
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	0.82	JP
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	1.8	JP
72-55-9	4,4'-DDE	3.1	JP
72-20-8	Endrin	1.2	JP
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.0	JP
1031-07-8	Endosulfan sulfate	1.2	JP
50-29-3	4,4'-DDT	2.8	JP
72-43-5	Methoxychlor	1.5	JP
53494-70-5	Endrin ketone	4.1 ~~0.66~~	JP U
7421-93-4	Endrin aldehyde	2.5	J
5103-71-9	alpha-Chlordane	3.0	P
5103-74-2	gamma-Chlordane	6.8	
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	84	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01M

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 16 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01N

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-4

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 29 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	610	EPY
319-86-8	delta-BHC	190	EP
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	100	EP
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	15	P
72-55-9	4,4'-DDE	4.6	U
72-20-8	Endrin	23	P
33213-65-9	Endosulfan II	6.8	P
72-54-8	4,4'-DDD	19	P
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	20	P
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	9.8	P
7421-93-4	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	59	EP
5103-74-2	gamma-Chlordane	41	E
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	94	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01NDL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-4

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 29 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/17/00 %D between columns > 25

Injection Volume: 1.0(uL) Dilution Factor: 100.0 ACH 12-7-00

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	240	U
319-85-7	beta-BHC	240	U
319-86-8	delta-BHC	240	U
58-89-9	gamma-BHC (Lindane)	240 ~~38~~	DJP U
76-44-8	Heptachlor	63	DJ
309-00-2	Aldrin	240 ~~17~~	DJP U
1024-57-3	Heptachlor epoxide	240 ~~50~~	DJP U
959-98-8	Endosulfan I	240 ~~30~~	DJP U
60-57-1	Dieldrin	460	U
72-55-9	4,4'-DDE	460 ~~73~~	DJP U
72-20-8	Endrin	460 ~~26~~	DJP U
33213-65-9	Endosulfan II	460 ~~6.5~~	DJP U
72-54-8	4,4'-DDD	460 ~~24~~	DJPU
1031-07-8	Endosulfan sulfate	460	U
50-29-3	4,4'-DDT	460 ~~37~~	DJPU
72-43-5	Methoxychlor	2400	U
53494-70-5	Endrin ketone	460	U
7421-93-4	Endrin aldehyde	460 ~~25~~	DJPU
5103-71-9	alpha-Chlordane	240	U
5103-74-2	gamma-Chlordane	240 ~~9.5~~	DJPU
8001-35-2	Toxaphene	24000	U
12674-11-2	Aroclor-1016	4600	U
11104-28-2	Aroclor-1221	9400	U
11141-16-5	Aroclor-1232	4600	U
53469-21-9	Aroclor-1242	4600	U
12672-29-6	Aroclor-1248	4600	U
11097-69-1	Aroclor-1254	4600	U
11096-82-5	Aroclor-1260	4600	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01P

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 29 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00 %D between columns > 25 ACH 12-7-00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	4.6	U
72-55-9	4,4'-DDE	4.6	U
72-20-8	Endrin	4.6	U
33213-65-9	Endosulfan II	4.6	U
72-54-8	4,4'-DDD	4.6	U
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	4.6	U
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.6	U
7421-93-4	Endrin aldehyde	4.6 ~~0.49~~	JPU
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	2.4	U
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	94	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01Q

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-6

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 4 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00

Injection Volume: 1.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.5	U
319-85-7	beta-BHC	3.5	U
319-86-8	delta-BHC	4.6	P
58-89-9	gamma-BHC (Lindane)	3.5	U
76-44-8	Heptachlor	3.5	U
309-00-2	Aldrin	3.5	U
1024-57-3	Heptachlor epoxide	1.7	JP
959-98-8	Endosulfan I	3.5	U
60-57-1	Dieldrin	36	P
72-55-9	4,4'-DDE	6.5	JP
72-20-8	Endrin	5.2	JP
33213-65-9	Endosulfan II	4.0	JP
72-54-8	4,4'-DDD	6.9	U
1031-07-8	Endosulfan sulfate	6.9	U
50-29-3	4,4'-DDT	6.9	U
72-43-5	Methoxychlor	35	U
53494-70-5	Endrin ketone	140	EP
7421-93-4	Endrin aldehyde	86	P
5103-71-9	alpha-Chlordane	40	P
5103-74-2	gamma-Chlordane	1.8	JP
8001-35-2	Toxaphene	350	U
12674-11-2	Aroclor-1016	69	U
11104-28-2	Aroclor-1221	140	U
11141-16-5	Aroclor-1232	69	U
53469-21-9	Aroclor-1242	69	U
12672-29-6	Aroclor-1248	69	U
11097-69-1	Aroclor-1254	69	U
11096-82-5	Aroclor-1260	69	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01QDL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01.

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-6

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 4 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00 9.D between columns > 25 acH 12-7-00

Injection Volume: 1.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	35	U
319-85-7	beta-BHC	35	U
319-86-8	delta-BHC	35	U
58-89-9	gamma-BHC (Lindane)	35 ~~3.1~~	DJP U
76-44-8	Heptachlor	35	U
309-00-2	Aldrin	35	U
1024-57-3	Heptachlor epoxide	10	DJP
959-98-8	Endosulfan I	35 ~~2.0~~	DJP U
60-57-1	Dieldrin	69 ~~8.4~~	DJP
72-55-9	4,4'-DDE	39	DJP
72-20-8	Endrin	29	DJP
33213-65-9	Endosulfan II	69 ~~3.0~~	DJP U
72-54-8	4,4'-DDD	18	DJP
1031-07-8	Endosulfan sulfate	44	DJP
50-29-3	4,4'-DDT	69	U
72-43-5	Methoxychlor	350 ~~8.3~~	DJP U
53494-70-5	Endrin ketone	38	DJP
7421-93-4	Endrin aldehyde	46	DJP
5103-71-9	alpha-Chlordane	35	U
5103-74-2	gamma-Chlordane	35	U
8001-35-2	Toxaphene	3500	U
12674-11-2	Aroclor-1016	690	U
11104-28-2	Aroclor-1221	1400	U
11141-16-5	Aroclor-1232	690	U
53469-21-9	Aroclor-1242	690	U
12672-29-6	Aroclor-1248	690	U
11097-69-1	Aroclor-1254	690	U
11096-82-5	Aroclor-1260	690	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01R

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-7

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 26 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.4	U
72-55-9	4,4'-DDE	4.4	U
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4'-DDD	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4'-DDT	4.4	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-93-4	Endrin aldehyde	4.4	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	90	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01S

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01I

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-8

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 18 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

%D between columns > 25% ACA 12-7-00

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	2.1 ~~0.13~~	JP U
319-85-7	beta-BHC	12	P
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1 ~~0.31~~	JP U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	3.8	P
1024-57-3	Heptachlor epoxide	6.1	P
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	12	
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	23	P
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	10	P
1031-07-8	Endosulfan sulfate	13	P
50-29-3	4,4'-DDT	34	
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	6.2	P
7421-93-4	Endrin aldehyde	22	P
5103-71-9	alpha-Chlordane	6.0	
5103-74-2	gamma-Chlordane	6.2	P
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01T

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-9

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 19 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	14	P
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	4.6	P
1024-57-3	Heptachlor epoxide	11	P
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	17	
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	12	P
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	14	P
1031-07-8	Endosulfan sulfate	18	P
50-29-3	4,4'-DDT	47	
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	9.6	P
7421-93-4	Endrin aldehyde	32	P
5103-71-9	alpha-Chlordane	9.7	P
5103-74-2	gamma-Chlordane	9.9	P
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	83	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01TDL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-9

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 19 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/17/00

Injection Volume: 1.0(uL) Dilution Factor: 2.0

%D between columns > 25 OCR 12-7-00

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.2 ~~0.082~~	DJP U
319-85-7	beta-BHC	11	DP
319-86-8	delta-BHC	4.2	U
58-89-9	gamma-BHC (Lindane)	4.2	U
76-44-8	Heptachlor	4.2	U
309-00-2	Aldrin	2.1	DJP
1024-57-3	Heptachlor epoxide	4.2	U
959-98-8	Endosulfan I	4.2	U
60-57-1	Dieldrin	8.2	D
72-55-9	4,4'-DDE	8.1	U
72-20-8	Endrin	4.3	DJP
33213-65-9	Endosulfan II	8.1 ~~0.085~~	DJP U
72-54-8	4,4'-DDD	8.1 ~~0.29~~	DJP U
1031-07-8	Endosulfan sulfate	7.9	DJP
50-29-3	4,4'-DDT	8.1	U
72-43-5	Methoxychlor	42	U
53494-70-5	Endrin ketone	3.9	DJP
7421-93-4	Endrin aldehyde	18	DP
5103-71-9	alpha-Chlordane	3.5	DJ
5103-74-2	gamma-Chlordane	5.0	DP
8001-35-2	Toxaphene	420	U
12674-11-2	Aroclor-1016	81	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	81	U
53469-21-9	Aroclor-1242	81	U
12672-29-6	Aroclor-1248	81	U
11097-69-1	Aroclor-1254	81	U
11096-82-5	Aroclor-1260	81	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01W

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-10

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 18 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00

Injection Volume: 1.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

%D between columns > 25 ACT 12-7-00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	67	EP
319-85-7	beta-BHC	4.1	U
319-86-8	delta-BHC	4.1	U
58-89-9	gamma-BHC (Lindane)	4.1	U
76-44-8	Heptachlor	140	EP
309-00-2	Aldrin	20	P
1024-57-3	Heptachlor epoxide	20	P
959-98-8	Endosulfan I	8.0	
60-57-1	Dieldrin	40	P
72-55-9	4,4'-DDE	69	P
72-20-8	Endrin	50	P
33213-65-9	Endosulfan II	8.0 ~~0.91~~	JP U
72-54-8	4,4'-DDD	17	
1031-07-8	Endosulfan sulfate	8.0	U
50-29-3	4,4'-DDT	42	P
72-43-5	Methoxychlor	41	U
53494-70-5	Endrin ketone	46	P
7421-93-4	Endrin aldehyde	8.0	U
5103-71-9	alpha-Chlordane	4.1	U
5103-74-2	gamma-Chlordane	28	
8001-35-2	Toxaphene	410	U
12674-11-2	Aroclor-1016	80	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	80	U
12672-29-6	Aroclor-1248	80	U
11097-69-1	Aroclor-1254	80	U
11096-82-5	Aroclor-1260	80	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01WDL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-10

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 18 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00

Injection Volume: 1.0(uL) Dilution Factor: 20.0

%D between columns > 25 ACM 12-7-00

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	73	DP
319-85-7	beta-BHC	41	U
319-86-8	delta-BHC	41	U
58-89-9	gamma-BHC (Lindane)	59	DP
76-44-8	Heptachlor	130	DP
309-00-2	Aldrin	41	U
1024-57-3	Heptachlor epoxide	41	U
959-98-8	Endosulfan I	41	U
60-57-1	Dieldrin	80	U
72-55-9	4,4'-DDE	85	DP
72-20-8	Endrin	80 ~~18~~	DJP U
33213-65-9	Endosulfan II	80 ~~4.6~~	DJP U
72-54-8	4,4'-DDD	80 ~~8.7~~	DJP U
1031-07-8	Endosulfan sulfate	80	U
50-29-3	4,4'-DDT	80 ~~15~~	DJP U
72-43-5	Methoxychlor	410	U
53494-70-5	Endrin ketone	80	U
7421-93-4	Endrin aldehyde	80	U
5103-71-9	alpha-Chlordane	41	U
5103-74-2	gamma-Chlordane	54	D
8001-35-2	Toxaphene	4100	U
12674-11-2	Aroclor-1016	800	U
11104-28-2	Aroclor-1221	1600	U
11141-16-5	Aroclor-1232	800	U
53469-21-9	Aroclor-1242	800	U
12672-29-6	Aroclor-1248	800	U
11097-69-1	Aroclor-1254	800	U
11096-82-5	Aroclor-1260	800	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01X

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-11

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 22 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00 %D between columns > 25% OCA 12-7-00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2 ~~0.20~~	JP U
319-85-7	beta-BHC	2.4	
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	0.77	JP
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	1.2	J
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2 ~~0.033~~	JP U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	3.5	JP
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	1.6	JP
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2 ~~0.69~~	JP U
7421-93-4	Endrin aldehyde	1.8	JP
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01Y

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01I

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-12

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 4 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00

Injection Volume: 1.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	0.87	JP
319-85-7	beta-BHC	18	
319-86-8	delta-BHC	3.5	U
58-89-9	gamma-BHC (Lindane)	3.1	J
76-44-8	Heptachlor	3.5	U
309-00-2	Aldrin	15	P
1024-57-3	Heptachlor epoxide	29	P
959-98-8	Endosulfan I	3.5	U
60-57-1	Dieldrin	58	P
72-55-9	4,4'-DDE	130	EP
72-20-8	Endrin	110	P
33213-65-9	Endosulfan II	6.9	U
72-54-8	4,4'-DDD	13	P
1031-07-8	Endosulfan sulfate	66	P
50-29-3	4,4'-DDT	6.9	U
72-43-5	Methoxychlor	35	U
53494-70-5	Endrin ketone	150	EP
7421-93-4	Endrin aldehyde	52	P
5103-71-9	alpha-Chlordane	150	EP
5103-74-2	gamma-Chlordane	520	E
8001-35-2	Toxaphene	350	U
12674-11-2	Aroclor-1016	69	U
11104-28-2	Aroclor-1221	140	U
11141-16-5	Aroclor-1232	69	U
53469-21-9	Aroclor-1242	69	U
12672-29-6	Aroclor-1248	69	U
11097-69-1	Aroclor-1254	69	U
11096-82-5	Aroclor-1260	69	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01YDL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-12

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 4 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00 % D between columns > 25 ACK 12-9-00

Injection Volume: 1.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	35	U
319-85-7	beta-BHC	10	DJP
319-86-8	delta-BHC	35	U
58-89-9	gamma-BHC (Lindane)	35 ~~3.0~~	DJP
76-44-8	Heptachlor	35	U
309-00-2	Aldrin	13	DJP
1024-57-3	Heptachlor epoxide	30	DJP
959-98-8	Endosulfan I	35	U
60-57-1	Dieldrin	55	DJP
72-55-9	4,4'-DDE	130	DP
72-20-8	Endrin	64	DJP
33213-65-9	Endosulfan II	69	U
72-54-8	4,4'-DDD	57	DJP
1031-07-8	Endosulfan sulfate	39	DJP
50-29-3	4,4'-DDT	86	D
72-43-5	Methoxychlor	280	DJP
53494-70-5	Endrin ketone	77	DP
7421-93-4	Endrin aldehyde	74	D
5103-71-9	alpha-Chlordane	140	DP
5103-74-2	gamma-Chlordane	430	D
8001-35-2	Toxaphene	3500	U
12674-11-2	Aroclor-1016	690	U
11104-28-2	Aroclor-1221	1400	U
11141-16-5	Aroclor-1232	690	U
53469-21-9	Aroclor-1242	690	U
12672-29-6	Aroclor-1248	690	U
11097-69-1	Aroclor-1254	690	U
11096-82-5	Aroclor-1260	690	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01YMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: WG6766-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 4 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.2	JP
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	13	P
76-44-8	Heptachlor	11	
309-00-2	Aldrin	12	
1024-57-3	Heptachlor epoxide	1.2	JP
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	30	P
72-55-9	4,4'-DDE	17	P
72-20-8	Endrin	33	P
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	6.9	P
1031-07-8	Endosulfan sulfate	2.4	JP
50-29-3	4,4'-DDT	35	
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.9	P
7421-93-4	Endrin aldehyde	9.9	
5103-71-9	alpha-Chlordane	7.6	P
5103-74-2	gamma-Chlordane	26	
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	34	U
11104-28-2	Aroclor-1221	70	U
11141-16-5	Aroclor-1232	34	U
53469-21-9	Aroclor-1242	34	U
12672-29-6	Aroclor-1248	34	U
11097-69-1	Aroclor-1254	34	U
11096-82-5	Aroclor-1260	34	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01YMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6766-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 4 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.0	JP
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	11	P
76-44-8	Heptachlor	8.8	
309-00-2	Aldrin	6.4	P
1024-57-3	Heptachlor epoxide	32	EP
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	33	P
72-55-9	4,4'-DDE	140	EP
72-20-8	Endrin	72	EP
33213-65-9	Endosulfan II	3.3	JP
72-54-8	4,4'-DDD	28	P
1031-07-8	Endosulfan sulfate	6.9	P
50-29-3	4,4'-DDT	30	P
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	5.3	P
7421-93-4	Endrin aldehyde	25	P
5103-71-9	alpha-Chlordane	61	EP
5103-74-2	gamma-Chlordane	200	E
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	34	U
11104-28-2	Aroclor-1221	70	U
11141-16-5	Aroclor-1232	34	U
53469-21-9	Aroclor-1242	34	U
12672-29-6	Aroclor-1248	34	U
11097-69-1	Aroclor-1254	34	U
11096-82-5	Aroclor-1260	34	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE01Z

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-13

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 27 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.5	U
72-55-9	4,4'-DDE	4.5	U
72-20-8	Endrin	4.5	U
33213-65-9	Endosulfan II	4.5	U
72-54-8	4,4'-DDD	4.5	U
1031-07-8	Endosulfan sulfate	4.5	U
50-29-3	4,4'-DDT	4.5	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.5	U
7421-93-4	Endrin aldehyde	4.5	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	45	U
11104-28-2	Aroclor-1221	92	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	45	U
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	45	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE020

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-14

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 25 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

%D between columns > 25 ACH 12/11/00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	JP
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.0	JP
58-89-9	gamma-BHC (Lindane)	4.0	
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	1.0	JP
1024-57-3	Heptachlor epoxide	2.3 ~~0.37~~	JP U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	1.5	JP
72-55-9	4,4'-DDE	4.4 ~~0.72~~	JP U
72-20-8	Endrin	4.0	J
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4'-DDD	1.8	JP
1031-07-8	Endosulfan sulfate	4.4 ~~0.83~~	JP U
50-29-3	4,4'-DDT	3.8	J
72-43-5	Methoxychlor	15	J
53494-70-5	Endrin ketone	3.6	JP
7421-93-4	Endrin aldehyde	1.7	JP
5103-71-9	alpha-Chlordane	1.6	JP
5103-74-2	gamma-Chlordane	1.5	JP
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	89	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE021

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01.

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-15

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 6 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	71	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE022

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-16

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 15 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	1.6	JP
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	0.52	JP
60-57-1	Dieldrin	19	P
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	25	P
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	51	P
53494-70-5	Endrin ketone	84	E
7421-93-4	Endrin aldehyde	10	P
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	1900	C
11096-82-5	Aroclor-1260	39	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE022DL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01

Matrix: (soil/water) SOIL Lab Sample ID: EE01K-16

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 15 Decanted: (Y/N) N Date Received: 11/03/00

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/17/00 %D between columns > 2 ACA 12-7-0

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
319-84-6	alpha-BHC		20	U
319-85-7	beta-BHC		20	U
319-86-8	delta-BHC		20	U
58-89-9	gamma-BHC (Lindane)		20	U
76-44-8	Heptachlor	20	~~0.96~~	DJP U
309-00-2	Aldrin		20	U
1024-57-3	Heptachlor epoxide	20	~~0.80~~	DJP U
959-98-8	Endosulfan I	20	~~0.94~~	DJP U
60-57-1	Dieldrin		16	DJP
72-55-9	4,4'-DDE		39	U
72-20-8	Endrin		39	U
33213-65-9	Endosulfan II		11	DJP
72-54-8	4,4'-DDD		39	U
1031-07-8	Endosulfan sulfate		12	DJP
50-29-3	4,4'-DDT		39	U
72-43-5	Methoxychlor		200	U
53494-70-5	Endrin ketone		53	D
7421-93-4	Endrin aldehyde		10	DJP
5103-71-9	alpha-Chlordane		20	U
5103-74-2	gamma-Chlordane		20	U
8001-35-2	Toxaphene		2000	U
12674-11-2	Aroclor-1016		390	U
11104-28-2	Aroclor-1221		790	U
11141-16-5	Aroclor-1232		390	U
53469-21-9	Aroclor-1242		390	U
12672-29-6	Aroclor-1248		390	U
11097-69-1	Aroclor-1254		1600	DC
11096-82-5	Aroclor-1260		390	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKSZ

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28687 SAS No.: SDG No.: EE01K

Matrix: (soil/water) SOIL Lab Sample ID: WG6766-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/07/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/16/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: EE01K CERCLIS No: ILD041869023

Case No: 28678 Site Name/Location: Clark Oil

Contractor or EPA Lab: CompuChem Data User: IEPA

No. of Samples: 16 Date Sampled or Date Received: 11-22-00

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 16 No. of samples received: 16

Received by: Eva M. Dixon / ESAT Date: 11-22-00

Received by LSSS: Eva M. Dixon / ESAT Date: 11-22-00

Review started: 12-6-00 Reviewer Signature: Allison C Harvey

Total time spent on review: 21.5 hrs Date review completed: 12-8-00

Copied by: ____ Date: ____

Mailed to user by: ____ Date: ____

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 11-28-00

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Chark oil (IL)

CASE NUMBER: 28678 SDG NUMBER: EE025

Number and Type of Samples: 4 (Soil)

Sample Numbers: EE025-26, EE027-29, EE02A

Laboratory: CompuChem Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025MSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6860-5

Sample wt/vol: 5.53(g/mL) G Lab File ID: WG6860-5A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 22 Date Analyzed: 11/18/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	3	J
75-35-4	1,1-Dichloroethene	54	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	7	J
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl-tert-butyl ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	49	
107-06-2	1,2-Dichloroethane	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025MS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6860-4

Sample wt/vol: 5.66(g/mL) G Lab File ID: WG6860-4A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 22 Date Analyzed: 11/18/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	1	J
75-35-4	1,1-Dichloroethene	48	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	40	
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	11	J
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-butyl ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	5	J
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	48	
107-06-2	1,2-Dichloroethane	11	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025MS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6860-4

Sample wt/vol: 5.66(g/mL) G Lab File ID: WG6860-4A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 22 Date Analyzed: 11/18/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	46	
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	49	
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	47	
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-Chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-1

Sample wt/vol: 5.67(g/mL) G Lab File ID: EE025-1A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 22 Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-Chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE025

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-1

Sample wt/vol: 5.67 (g/mL) G Lab File ID: EE025-1A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 22 Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

ACH 12-14

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	13.47	6	NJB U
2. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	16.07	22	NJB U
3.	LABORATORY ARTIFACT	17.79	20	JB U
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FORM I VOA-TIC OLM04.2

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKYT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Lab File ID: WG6994-1A71 Lab Sample ID: WG6994-1

Date Analyzed: 11/21/00 Time Analyzed: 1043

GC Column: EQUITY624 5ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972HP71

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VHBLKXT	WG6955-6	WG6955-6R3A7	1903
02				
03				
04				
05				
06				
07				
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-1

Sample wt/vol: 5.67(g/mL) G Lab File ID: EE025-1A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 22 Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	1	J
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	49	B
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	11 ~~10~~	JB
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-butyl ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	4	J
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U

FORM I VOA-1 OLM04.2

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKWA

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Lab File ID: WG6865-1RA71MEOH Lab Sample ID: WG6865-1

Date Analyzed: 11/20/00 Time Analyzed: 1243

GC Column: J&W DB-6245ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972HP71

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE02A	EE025-6	EE025-6DA71	1324
02				
03				
04				
05				
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKXT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Lab File ID: WG6955-1A71 Lab Sample ID: WG6955-1

Date Analyzed: 11/21/00 Time Analyzed: 1625

GC Column: EQUITY624 5ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972HP71

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE02AMS	WG6955-4	WG6955-4D2A7	1703
02	EE02AMSD	WG6955-5	WG6955-5D2A7	1733
03				
04				
05				
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKVL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Lab File ID: WG6860-2A56 Lab Sample ID: WG6860-2

Date Analyzed: 11/15/00 Time Analyzed: 1053

GC Column: EQUITY624 5ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: F50056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE025	EE025-1	EE025-1A56	1416
02	EE026	EE025-2	EE025-2A56	1447
03	EE027	EE025-3	EE025-3A56	1518
04	EE028	EE025-4	EE025-4A56	1609
05	EE029	EE025-5	EE025-5A56	1741
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKVX

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Lab File ID: WG6864-1A56 Lab Sample ID: WG6864-1

Date Analyzed: 11/18/00 Time Analyzed: 1045

GC Column: EQUITY624 5ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: F50056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE025MS	WG6860-4	WG6860-4A56	1225
02	EE025MSD	WG6860-5	WG6860-5A56	1255
03				
04				
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COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix Spike - EPA Sample No.: EE025 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	56.63	0.00	48.38	85	59-172
Trichloroethene	56.63	0.00	45.81	81	62-137
Benzene	56.63	0.00	47.85	84	66-142
Toluene	56.63	0.00	48.71	86	59-139
Chlorobenzene	56.63	0.00	46.72	83	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	57.96	54.39	94	10	22	59-172
Trichloroethene	57.96	48.24	83	2	24	62-137
Benzene	57.96	49.08	85	1	21	66-142
Toluene	57.96	49.66	86	0	21	59-139
Chlorobenzene	57.96	48.28	83	0	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix Spike - EPA Sample No.: EE02A Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	8446	0.00	9905	117	59-172
Trichloroethene	8446	0.00	8058	95	62-137
Benzene	8446	33970	9726	-287*	66-142
Toluene	8446	0.00	8161	97	59-139
Chlorobenzene	8446	0.00	7727	91	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	8446	11020	130	11	22	59-172
Trichloroethene	8446	8962	106	11	24	62-137
Benzene	8446	11920	-261*	-9	21	66-142
Toluene	8446	8920	106	9	21	59-139
Chlorobenzene	8446	8600	102	11	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 2 out of 10 outside limits

COMMENTS:

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Level:(low/med) MED

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKWA	89	88	86		0
02	EE02A	93	97	93		0
03	VBLKXT	92	96	90		0
04	EE02AMS	85	90	84		0
05	EE02AMSD	97	102	88		0
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKYT	92	93	84		0
02	VHBLKXT	93	94	89		0
03						
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

May we pick EE025 for organics?

They are not listed as blanks on the Traffic Reports.

Thanks Alice

Alice Evans
CompuChem/Liberty
501 Madison Ave
Cary, NC 27513
919-379-4080

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Level:(low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	VBLKVL	97	94	98		0
02	EE025	100	100	98		0
03	EE026	101	97	95		0
04	EE027	110	98	96		0
05	EE028	103	89	97		0
06	EE029	103	101	90		0
07	VBLKVX	99	106	100		0
08	EE025MS	86	91	83		0
09	EE025MSD	93	97	90		0
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

CompuChem
a division of Liberty Analytical Corp.
501 Madison Avenue
Cary, North Carolina 27513

SDG NARRATIVE

CASE: 28678
SDG: EE025
CONTRACT: 68W99070

SAMPLE IDENTIFICATIONS: EE025, EE026, EE027, EE028, EE029, EE02A

This portion of the SDG narrative covers only the pesticide fractions of the six (6) samples listed above. For receiving information pertaining to these samples, please refer to the portion of the SDG narrative that covers the volatile fractions.

PESTICIDES

Extraction and analysis holding time requirements were met for all of these samples. No pesticide or PCB Target Compound List (TCL) analytes were confirmed by dual column analysis at a concentration above the Contract Required Quantitation Limit (CRQL) in any of these samples.

Manual quantitations were performed on several of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

All of the surrogates met recovery criteria with one exception. The recovery of tetrachloro-m-xylene (TCX) fell just below the quality control criteria limit on the CLPEST column in the analysis of EE028. All of the detected surrogates met retention time criteria in the analyses of these samples.

The associated method blank met all quality control criteria. No pesticide or PCB TCL analytes were confirmed in the method blank.

EE025 was used as the original to prepare the duplicate matrix spikes as requested. The associated duplicate matrix spikes met all advisory accuracy and precision criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions listed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Stephanie W. Winfield 11-22-00
Stephanie W. Winfield
Technical Reviewer
November 22, 2000

Alice Evans

From: Senfield, Christopher <Christopher.Senfield@dyncorp.com>
To: 'Alice Evans' <aevans@compuchemlabs.com>
Sent: Monday, November 13, 2000 11:16 AM
Attach: Alice Evans.vcf
Subject: FW: Case 28678

Hi Alice,

Wes forwarded this to me. These selections are fine if they have enough
volume.

Chris

Chris Senfield
Dyncorp
(703) 264-9526

-----Original Message-----
From: Markham, Wesley
Sent: Monday, November 13, 2000 11:12 AM
To: Senfield, Christopher
Subject: FW: Case 28678

Chris,

Region 5 stuff from LIBRTY.

-----Original Message-----
From: Alice Evans [mailto:aevans@compuchemlabs.com]
Sent: Monday, November 13, 2000 11:01 AM
To: Wesely Markham
Subject: Case 28678

Samples received on 11/10/00

No designated QC

May we pick MEE025? for inorganics

ALKANE NARRATIVE REPORT
Report date : 11/22/2000
SDG: EE025

Client Sample ID: EE029 Lab Sample ID: EE025-5 File ID: EE025-5A66

Compound	RT	Est. Conc.	Q
Branched Alkane	14.14	198.3	J
Straight-Chain Alkane	16.78	456.3	J
Branched Alkane	17.27	349.7	J
Unknown Alkane	17.68	261.4	J
Unknown Alkane	18.15	349.3	J
Unknown Alkane	18.80	212.0	J

Client Sample ID: EE027 Lab Sample ID: EE025-3 File ID: EE025-3A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	22.90	91.83	J
Straight-Chain Alkane	24.03	167.9	J
Unknown Alkane	25.20	175.0	J
Unknown Alkane	26.59	157.9	J

Client Sample ID: EE02A Lab Sample ID: EE025-6 File ID: EE025-6A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	12.14	7421	J
Branched Alkane	12.29	4484	J
Unknown Alkane	12.87	585.5	J
Unknown Alkane	13.27	816.2	J
Branched Alkane	13.96	650.7	J
Unknown Alkane	14.05	607.4	J
Branched Alkane	14.12	870.6	J
Straight-Chain Alkane	14.37	1106	J
Straight-Chain Alkane	15.37	1167	J
Unknown Alkane	16.31	624.8	J
Unknown Alkane	16.38	903.6	J
Unknown Alkane	16.75	1360	J
Branched Alkane	16.94	1338	J
Branched Alkane	17.24	1234	J
Branched Alkane	17.39	915.4	J
Branched Alkane	17.56	1115	J
Unknown Alkane	17.63	1295	J
Cyclic Alkane	17.78	1002	J
Unknown Alkane	18.10	1215	J
Straight-Chain Alkane	18.36	968.4	J

Client Sample ID: EE025 Lab Sample ID: EE025-1 File ID: EE025-1JA66

Compound	RT	Est. Conc.	Q
Unknown Alkane	23.95	129.0	J

Client Sample ID: EE02ADL Lab Sample ID: EE025-6 File ID: EE025-6DA66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	12.13	4315	JD
Branched Alkane	12.28	3095	JD

Cyclic Alkane	12.50	2860	JD
Cyclic Alkane	12.63	2350	JD
Branched Alkane	12.72	2197	JD
Unknown Alkane	12.85	2445	JD
Straight-Chain Alkane	13.26	4282	JD
Unknown Alkane	13.46	2365	JD
Branched Alkane	14.10	1648	JD
Straight-Chain Alkane	14.34	2804	JD
Unknown Alkane	14.98	2253	JD
Straight-Chain Alkane	15.35	1526	JD
Branched Alkane	16.74	2501	JD
Cyclic Alkane	16.87	1293	JD
Branched Alkane	16.92	2094	JD
Straight-Chain Alkane	17.18	1656	JD
Branched Alkane	17.23	3266	JD
Unknown Alkane	17.62	2066	JD
Cyclic Alkane	17.77	1465	JD
Unknown Alkane	18.09	2487	JD

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

CASE # 28678
SDG # EE025
CONTRACT # 68W99070

SAMPLE IDENTIFICATIONS: EE025, EE026, EE027, EE028, EE029, EE02A

The six soil samples listed above were scheduled for the requested analyses of the semivolatile fractions. The samples were prepared and analyzed following the current EPA Contract Laboratory Program (CLP) Statement of Work (SOW), Document OLM04.2. The pH values of these soil samples ranged from 6.5 to 8.5, and the percent moistures ranged from 21 to 39. This portion of the SDG narrative deals with the semivolatile fractions only. For the receiving information associated with these samples, please refer to the volatile SDG narrative.

Semivolatiles

Extraction and analysis holding time requirements were met for all of these samples.

The Target Compound List (TCL) analytes naphthalene, 2-methylnaphthalene, and phenanthrene were identified above the Contract Required Quantitation Limit (CRQL) in EE02A. No TCL analytes were present at concentrations above the CRQL in the remaining samples. Tentatively Identified Compounds (TICs) were found in all these samples. The one TIC present in EE026 was a blank contaminant. The TICs found in the remaining samples could be characterized as alkanes, amides, carboxylic acids, substituted naphthalenes, phthalates, polyaromatic hydrocarbons (PAHs), thiophenes, and unknowns.

Manual quantitations were performed on one or more of the process files associated with this SDG, including all the samples listed above. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

15 g of raw sample were used to extract EE025 and the duplicate matrix spikes, rather than the method-specified amount of 30 g. The lower weight was used to allow an aliquot of raw sample to be reserved for further extraction, if it became necessary. Low sample volume was received for this sample. The extracts were concentrated to a final volume half that of the method-specified volume, and therefore no effective dilution was performed during the extraction procedure.

In the initial undiluted analysis of EE02A, the on-column amount of 2-methylnaphthalene exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration. The sample was reanalyzed at a 2x dilution in order to bring the on-column amount into range. We have reported and billed for both analyses of EE02A.

All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All of the surrogates met recovery criteria in the analyses of these samples. All of the internal standards met response and retention time criteria in the analyses of these samples.

The three associated method blanks met all quality control criteria. Two of the method blanks contained levels of phthalate esters within allowable limits. TICs were found in each of these method blanks.

EE025 was used as the original to prepare the duplicate matrix spikes as requested. The base surrogate 2-fluorobiphenyl was flagged as an outlier in the matrix spike. With one exception, the associated duplicate matrix spikes met all advisory accuracy criteria. Recovery of the spike compound n-nitroso-di-n-propylamine did not meet QC criteria in the analysis of the matrix spike. However, all of the Relative Percent Differences (RPDs) failed quality control criteria in the comparison of the duplicate matrix spikes. In accordance with the Statement of Work (SOW), we have reported the data without further analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Michael Steven Schapira 11/22/00

Michael Steven Schapira

Data Reviewer II
November 22, 2000

ALKANE NARRATIVE REPORT
Report date : 11/22/2000
SDG: EE025

Client Sample ID: EE028 Lab Sample ID: EE025-4 File ID: EE025-4A56

Compound	RT	Est. Conc.	Q
Cyclic Alkane	14.73	212.9	J
Cyclic Alkane	15.12	275.4	J
Branched Alkane	15.35	775.3	J
Branched Alkane	15.48	844.3	J
Branched Alkane	15.71	620.2	J
Branched Alkane	15.85	408.9	J
Branched Alkane	16.47	1126	J
Branched Alkane	16.68	798.1	J
Branched Alkane	16.86	1107	J
Cyclic Alkane	17.02	967.0	J
Straight-Chain Alkane	17.60	1223	J
Branched Alkane	18.38	1515	J
Cyclic Alkane	18.76	2180	J
Branched Alkane	18.89	1890	J
Cyclic Alkane	19.65	1851	J
Branched Alkane	19.80	978.1	J

Client Sample ID: EE029 Lab Sample ID: EE025-5 File ID: EE025-5A56

Compound	RT	Est. Conc.	Q
Branched Alkane	4.65	129.7	J
Branched Alkane	7.19	161.1	J
ranched Alkane	7.60	141.9	J
Cyclic Alkane	8.85	226.5	J
Branched Alkane	9.89	263.1	J
Branched Alkane	10.06	35.19	J
Branched Alkane	10.37	254.7	J
Cyclic Alkane	12.91	36.55	J
Cyclic Alkane	13.12	29.81	J
Cyclic Alkane	13.27	34.91	J
Cyclic Alkane	13.85	32.78	J
Cyclic Alkane	13.93	41.60	J
Branched Alkane	18.38	107.3	J
Branched Alkane	18.77	113.0	J

Client Sample ID: EE02A Lab Sample ID: EE025-6 File ID: EE025-6DA71

Compound	RT	Est. Conc.	Q
Branched Alkane	8.08	345500	J
Branched Alkane	8.40	154300	J
Straight-Chain Alkane	8.71	216000	J
Branched Alkane	9.26	317000	J
Cyclic Alkane	9.39	182600	J
Branched Alkane	9.90	295100	J
Branched Alkane	10.05	397300	J
Straight-Chain Alkane	10.40	160300	J
Branched Alkane	10.84	58400	J
Branched Alkane	11.38	157700	J
traight-Chain Alkane	11.66	128300	J
Cyclic Alkane	12.21	85720	J
Branched Alkane	12.30	238800	J
Branched Alkane	12.38	137800	J
Branched Alkane	13.08	239700	J

Branched Alkane	13.51	77580	J
Branched Alkane	13.81	94670	J
Straight-Chain Alkane	14.59	93470	J
Straight-Chain Alkane	15.21	121600	J

Client Sample ID: VBLKXT Lab Sample ID: WG6955-1 File ID: WG6955-1A71

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	15.89	675.4	J

USEPA Contract Laboratory Program
Generic Traffic Report/Chain-of-Custody Record

Case No. 28678
DAS No.
SDG No. EE025

1477

Date Shipped: 11/9/00 **Carrier Name:** Fed Ex **Airbill:** 3497988060 **Shipped to:** Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	**Date Received/Received by:** 11/10/00 930 Alice Evans **Lab Contract No.:** 68W99070 **Unit Price:** $467- **Transfer To:** _____ **Date Received/Received By:** _____ **Contract No.:** _____ **Price:** _____	**Sampler (Signature)** **Relinquished By:** / **Date / Time** / **Received By:** **Relinquished By:** / **Date / Time** / **Received By:** **Relinquished By:** / **Date / Time** / **Received By:**

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
EE025	Soil/Sediment / Mark Densmore	L/G	Dr (21)	559701 (Ice Only) (1)	X125	11/09/2000 10:00		GOOD
EE026	Soil/Sediment / Mark Densmore	L/G	Dr (21)	559705 (Ice Only) (1)	X126	11/09/2000 10:25		
EE027	Soil/Sediment / Mark Densmore	L/G	Dr (21)	559709 (Ice Only) (1)	X127	11/09/2000 12:00		
EE028	Soil/Sediment / Mark Densmore	L/G	Dr (21)	559713 (Ice Only) (1)	X128	11/09/2000 12:15		
EE029	Soil/Sediment / Mark Densmore	L/G	Dr (21)	559717 (Ice Only) (1)	X129	11/09/2000 15:45		
EE02A	Soil/Sediment / Mark Densmore	L/G	Dr (21)	559721 (Ice Only) (1)	X130	11/09/2000 16:00		SDG-FINAL SAMPLE

COPY Original EE025 MS 11/10/00

Shipment for Case Complete? ~~N~~ Y	Sample(s) to be used for Laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number 47777	Cooler Temperature Upon Receipt: 7°C
Analysis Key Below: Dr=Dry Weight	**Concentration:** L = Low M = Low/Medium H = High	**Type/Designate:** Composite = C Grab = G	**Custody Seal Intact?** Y	**Shipment Iced?** Y

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr, Reston, VA. 20191-3436 Phone: 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-110900-0003

F2V4.0

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

NOV 28 2000

SDG NARRATIVE
CASE #28678
SDG #EE025
CONTRACT # 68W99070

SAMPLE IDENTIFICATIONS: EE025 EE026 EE027 EE028 EE029 EE02A

The six soil samples listed above were received intact, at 7 degrees C, with proper documentation, in sealed shipping containers, on November 10, 2000. All samples were scheduled for volatile, semivolatile, and pesticide-PCB analysis, and the volatile samples were received in Encore samplers. As no sample was designated for QC, the laboratory received approval from SMO to use EE025. A copy of the e-mail accompanies this narrative.
The samples were prepared and analyzed following Contract Laboratory Protocol(CLP) Statement of Work(SOW), document OLM04.2. This portion of the SDG narrative deals with the volatile fractions only. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for Case # 28678, SDG # EE025 are included in the sample data sections.

All samples were analyzed within holding times, except the medium level matrix spikes generated from EE02A which were analyzed one day outside of analytical holding times. Based on screen data sample EE02A was prepared and analyzed as a medium level sample, and contained high levels of ethylbenzene and xylenes.
Sample dry weight values ranged from 21 to 39 percent. In the low level samples the Target Compound List(TCL) analytes acetone, and methylene chloride were the most frequently identified above the Contract Required Quantitation Limit(CRQL). Sample EE029 also contained benzene, methylcyclohexane, and isopropylbenzene above the CRQL.

Numerous high level TICs were present EE028, EE029, and EE02A and these were generally assessed as various substitited benzenes, substituted naphthalenes, and peaks of unknown charaterization.

All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The system monitoring compounds (SMCs) met recovery criteria in the analyses of these samples, and all of the internal standards met retention time and response criteria in the analyses of these samples.

The associated storage blank met all quality control criteria, and did not contain any target analytes above the CRQL.
The asssociated method blanks met all QC criteria, and also did not contain TCL analytes above the CRQL.

The low level duplicate matrix spikes generated from EE025 met all QC precision and accuracy criteria without exception.
The medium level matrix spikes generated from EE02A met all QC precision and accuracy criteria with exceptions. Spike recoveries fell below QC limits for benzene in both matrix spikes.
Manual quantitations were performed on the process files in some of the the associated initial, and continuing calibration(s) and in all of the submitted samples. The reasons have been coded with explanations provided in the notice included in the narrative section of this SDG.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Roy Sutton
Case Reviewer
November 22, 2000

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 11-28-00

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: 1 EPA

We have reviewed the data for the following case:

SITE NAME: Chark oil (IL)

CASE NUMBER: 28678 SDG NUMBER: EE025

Number and Type of Samples: 6 (Soil)

Sample Numbers: EE025-26, EE027-29, EE02A

Laboratory: CompuChem Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

USEPA Contract Laboratory Program
Organic Traffic Report

Case No. 28678
DAS No.
SDG No. EE025

1476

Date Shipped: 11/9/00
Carrier Name: Fed Ex
Airbill: 3497988060
Shipped to:
Liberty Analytical
501 Madison Avenue
Cary NC 27513
(919) 379-4080

Date Received/Received by: 11/10/00 Alice Evans 9:38
Lab Contract No.: 68W99070 Unit Price: 467-

Transfer To:
Date Received/Received By:
Contract No.: Price:

Sampler (Signature)

Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
EE025	Soil/Sediment / Mark Densmore	L/G	BNA (21), PEST (21), VOA (21)	559698 (Ice Only), 559699 (Ice Only) (2)	X125	11/09/2000 10:00	MEE025	GOOD
EE026	Soil/Sediment / Mark Densmore	L/G	BNA (21), PEST (21), VOA (21)	559702 (Ice Only), 559703 (Ice Only) (2)	X126	11/09/2000 10:25	MEE026	
EE027	Soil/Sediment / Mark Densmore	L/G	BNA (21), PEST (21), VOA (21)	559706 (Ice Only), 559707 (Ice Only) (2)	X127	11/09/2000 12:00	MEE027	
EE028	Soil/Sediment / Mark Densmore	L/G	BNA (21), PEST (21), VOA (21)	559710 (Ice Only), 559711 (Ice Only) (2)	X128	11/09/2000 12:15	MEE028	
EE029	Soil/Sediment / Mark Densmore	L/G	BNA (21), PEST (21), VOA (21)	559714 (Ice Only), 559715 (Ice Only) (2)	X129	11/09/2000 15:45	MEE029	
EE02A	Soil/Sediment / Mark Densmore	L/G	BNA (21), PEST (21), VOA (21)	559718 (Ice Only), 559719 (Ice Only) (2)	X130	11/09/2000 16:00	MEE02A	SDG - FINAL SAMPLE

COPY Original EE025 MS 11/10/00

Shipment for Case Complete? Y	Sample(s) to be used for Laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number 47777	Cooler Temperature Upon Receipt: 7°C	
Analysis Key Below: BNA=CLP TCL Semivolatiles, PEST=CLP TCL Pesticide/PCBs, VOA=CLP TCL Volatiles	Concentration: L = Low M = Low/Medium H = High	Type/Designate: Composite = C Grab = G		Custody Seal Intact? 47777	Shipment Iced? Y

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr. Reston, VA. 20191-3436 Phone: 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-110900-0001

F2V4.0

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: EE025 CERCLIS No: ILD041869023

Case No: 28678 Site Name/Location: Clark Oil

Contractor or EPA Lab: CompuChem Data User: IEPA

No. of Samples: 6 Date Sampled or Date Received: 11-28-00

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 6 No. of samples received: 6

Received by: Ella M. Dixon / ESAT Date: 11-28-00

Received by LSSS: Ella M. Dixon / ESAT Date: 11-28-00

Review started: 12-13-00 Reviewer Signature: Allison C. Hanney

Total time spent on review: 8.5 hrs Date review completed: 12-15-00

Copied by: ____ Date: ____

Mailed to user by: ____ Date: ____

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE025
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Number of Soil Samples : 6
Number of Water Samples : 0

Sample Number :	EE02A		EE025		EE025MS		EE025MSD		EE026	
Sampling Location :	X130		X125		X125		X125		X126	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/9/00		11/9/00		11/9/00		11/9/00		11/9/00	
Time Sampled :	16:00		10:00		10:00		10:00		10:25	
%Moisture :	26		22		22		22		21	
pH :	8.5		6.5		6.5		6.5		7.2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2.3	U	2.2	U	2.2	U	2.2	U	2.2	U
beta-BHC	2.3	U	2.2	U	2.2	U	2.2	U	2.2	U
delta-BHC	2.3	U	2.2	U	2.2	U	2.2	U	2.2	U
gamma-BHC (Lindane)	2.3	U	2.2	U	17		17		2.2	U
Heptachlor	2.3	U	2.2	U	17		17		2.2	U
Aldrin	2.3	U	2.2	U	17		17		2.2	U
Heptachlor epoxide	2.3	U	2.2	U	2.2	U	2.2	U	2.2	U
Endosulfan I	2.3	U	2.2	U	2.2	U	2.2	U	2.2	U
Dieldrin	4.5	U	4.2	U	35		36		4.2	U
4,4'-DDE	4.5	U	4.2	U	2.4	J	2.3	J	4.2	U
Endrin	4.5	U	4.2	U	35		36		4.2	U
Endosulfan II	4.5	U	4.2	U	4.2	U	4.2	U	4.2	U
4,4'-DDD	4.5	U	4.2	U	4.2	U	4.2	U	4.2	U
Endosulfan sulfate	4.5	U	4.2	U	4.2	U	4.2	U	4.2	U
4,4'-DDT	4.5	U	4.2	U	31		33		4.2	U
Methoxychlor	23	U	22	U	22	U	22	U	22	U
Endrin ketone	4.5	U	4.2	U	2.7	J	2.8	J	4.2	U
Endrin aldehyde	4.5	U	4.2	U	4.2	U	4.2	U	4.2	U
alpha-Chlordane	2.3	U	2.2	U	2.2	U	2.2	U	2.2	U
gamma-Chlordane	2.3	U	2.2	U	2.2	U	2.2	U	2.2	U
Toxaphene	230	U	220	U	220	U	220	U	220	U
Aroclor-1016	45	U	42	U	42	U	42	U	42	U
Aroclor-1221	91	U	86	U	86	U	86	U	85	U
Aroclor-1232	45	U	42	U	42	U	42	U	42	U
Aroclor-1242	45	U	42	U	42	U	42	U	42	U
Aroclor-1248	45	U	42	U	42	U	42	U	42	U
Aroclor-1254	45	U	42	U	42	U	42	U	42	U
Aroclor-1260	45	U	42	U	42	U	42	U	42	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE025
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE027		EE028		EE029		PBLKUP			
Sampling Location :	X127		X128		X129					
Matrix :	Soil		Soil		Soil		Soil			
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :	11/9/00		11/9/00		11/9/00					
Time Sampled :	12:00		12:15		15:45					
%Moisture :	24		39		26		N/A			
pH :	7.7		8.0		8.5					
Dilution Factor :	1.0		1.0		1.0		1.0			
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2.2	U	2.8	UJ	2.3	U	1.7	U		
beta-BHC	2.2	U	2.8	UJ	0.93	J	1.7	U		
delta-BHC	2.2	U	2.8	UJ	2.3	U	1.7	U		
gamma-BHC (Lindane)	2.2	U	2.8	UJ	2.3	U	1.7	U		
Heptachlor	2.2	U	2.8	UJ	2.3	U	1.7	U		
Aldrin	2.2	U	2.8	UJ	2.3	U	1.7	U		
Heptachlor epoxide	2.2	U	2.8	UJ	2.3	U	1.7	U		
Endosulfan I	2.2	U	2.8	UJ	2.3	U	1.7	U		
Dieldrin	4.3	U	5.4	UJ	4.5	U	3.3	U		
4,4'-DDE	4.3	U	5.4	UJ	4.5	U	3.3	U		
Endrin	4.3	U	5.4	UJ	4.5	U	3.3	U		
Endosulfan II	4.3	U	5.4	UJ	4.5	U	3.3	U		
4,4'-DDD	4.3	U	5.4	UJ	4.5	U	3.3	U		
Endosulfan sulfate	4.3	U	5.4	UJ	4.5	U	3.3	U		
4,4'-DDT	4.3	U	5.4	UJ	4.5	U	3.3	U		
Methoxychlor	22	U	28	UJ	23	U	17	U		
Endrin ketone	4.3	U	5.4	UJ	4.5	U	3.3	U		
Endrin aldehyde	4.3	U	5.4	UJ	1.7	J	3.3	U		
alpha-Chlordane	2.2	U	2.8	UJ	2.3	U	1.7	U		
gamma-Chlordane	2.2	U	2.8	UJ	2.3	U	1.7	U		
Toxaphene	220	U	280	UJ	230	U	170	U		
Aroclor-1016	43	U	54	UJ	45	U	33	U		
Aroclor-1221	88	U	110	UJ	91	U	67	U		
Aroclor-1232	43	U	54	UJ	45	U	33	U		
Aroclor-1242	43	U	54	UJ	45	U	33	U		
Aroclor-1248	43	U	54	UJ	45	U	33	U		
Aroclor-1254	43	U	54	UJ	45	U	33	U		
Aroclor-1260	43	U	54	UJ	45	U	33	U		

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE025
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	SBLKUU		SBLKVV							
Sampling Location :										
Matrix :	Soil		Soil							
Units :	ug/Kg		ug/Kg							
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A							
pH :										
Dilution Factor :	1.0		1.0							
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	330	U	330	U						
Phenol	330	U	330	U						
bis-(2-Chloroethyl) ether	330	U	330	U						
2-Chlorophenol	330	U	330	U						
2-Methylphenol	330	U	330	U						
2,2'-oxybis(1-Chloropropane)	330	U	330	U						
Acetophenone	330	U	330	U						
4-Methylphenol	330	U	330	U						
N-Nitroso-di-n-propylamine	330	U	330	U						
Hexachloroethane	330	U	330	U						
Nitrobenzene	330	U	330	U						
Isophorone	330	U	330	U						
2-Nitrophenol	330	U	330	U						
2,4-Dimethylphenol	330	U	330	U						
bis(2-Chloroethoxy)methane	330	U	330	U						
2,4-Dichlorophenol	330	U	330	U						
Naphthalene	330	U	330	U						
4-Chloroaniline	330	U	330	U						
Hexachlorobutadiene	330	U	330	U						
Caprolactam	330	U	330	U						
4-Chloro-3-methylphenol	330	U	330	U						
2-Methylnaphthalene	330	U	330	U						
Hexachlorocyclopentadiene	330	U	330	U						
2,4,6-Trichlorophenol	330	U	330	U						
2,4,5-Trichlorophenol	830	U	830	U						
1,1'-Biphenyl	330	U	330	U						
2-Chloronaphthalene	330	U	330	U						
2-Nitroaniline	830	U	830	U						
Dimethylphthalate	330	U	330	U						
2,6-Dinitrotoluene	330	U	330	U						
Acenaphthylene	330	U	330	U						
3-Nitroaniline	830	U	830	U						
Acenaphthene	330	U	330	U						

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE025
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	SBLKUU		SBLKVV							
Sampling Location :										
Matrix :	Soil		Soil							
Units :	ug/Kg		ug/Kg							
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A							
pH :										
Dilution Factor :	1.0		1.0							
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	830	UJ	830	U						
4-Nitrophenol	830	U	830	U						
Dibenzofuran	330	U	330	U						
2,4-Dinitrotoluene	330	U	330	U						
Diethylphthalate	330	U	330	U						
Fluorene	330	U	330	U						
4-Chlorophenyl-phenyl ether	330	U	330	U						
4-Nitroaniline	830	UJ	830	U						
4,6-Dinitro-2-methylphenol	830	U	830	U						
N-Nitrosodiphenylamine	330	U	330	U						
4-Bromophenyl-phenylether	330	U	330	U						
Hexachlorobenzene	330	U	330	U						
Atrazine	330	U	330	U						
Pentachlorophenol	830	U	830	U						
Phenanthrene	330	U	330	U						
Anthracene	330	U	330	U						
Carbazole	330	UJ	330	U						
Di-n-butylphthalate	330	U	330	U						
Fluoranthene	330	U	330	U						
Pyrene	330	U	330	U						
Butylbenzylphthalate	330	U	330	U						
3,3'-Dichlorobenzidine	330	U	330	U						
Benzo(a)anthracene	330	U	330	U						
Chrysene	330	U	330	U						
bis(2-Ethylhexyl)phthalate	330	U	78	J						
Di-n-octylphthalate	330	U	330	U						
Benzo(b)fluoranthene	330	U	330	U						
Benzo(k)fluoranthene	330	U	330	U						
Benzo(a)pyrene	330	U	330	U						
Indeno(1,2,3-cd)pyrene	330	U	330	U						
Dibenzo(a,h)anthracene	330	U	330	U						
Benzo(g,h,i)perylene	330	U	330	U						

Analytical Results (Qualified Data)

Case #. 28678 SDG : EE025
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE026		EE027		EE028		EE029		SBLKUO	
Sampling Location :	X126		X127		X128		X129			
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/9/00		11/9/00		11/9/00		11/9/00			
Time Sampled :	10:25		12:00		12:15		15:45			
%Moisture :	21		24		39		26		N/A	
pH :	7.2		7.7		8.0		8.5			
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	420	U	430	U	540	U	450	U	330	U
Phenol	420	U	430	U	540	U	450	U	330	U
bis-(2-Chloroethyl) ether	420	U	430	U	540	U	450	U	330	U
2-Chlorophenol	420	U	430	U	540	U	450	U	330	U
2-Methylphenol	420	U	430	U	540	U	450	U	330	U
2,2'-oxybis(1-Chloropropane)	420	U	430	U	540	U	450	U	330	U
Acetophenone	420	U	430	U	540	U	450	U	330	U
4-Methylphenol	420	U	430	U	540	U	450	U	330	U
N-Nitroso-di-n-propylamine	420	U	430	U	540	U	450	U	330	U
Hexachloroethane	420	U	430	U	540	U	450	U	330	U
Nitrobenzene	420	U	430	U	540	U	450	U	330	U
Isophorone	420	U	430	U	540	U	450	U	330	U
2-Nitrophenol	420	U	430	U	540	U	450	U	330	U
2,4-Dimethylphenol	420	U	430	U	540	U	450	U	330	U
bis(2-Chloroethoxy)methane	420	U	430	U	540	U	450	U	330	U
2,4-Dichlorophenol	420	U	430	U	540	U	450	U	330	U
Naphthalene	420	U	430	U	540	U	450	U	330	U
4-Chloroaniline	420	U	430	U	540	U	450	U	330	U
Hexachlorobutadiene	420	U	430	U	540	U	450	U	330	U
Caprolactam	420	U	430	U	540	U	450	U	330	U
4-Chloro-3-methylphenol	420	U	430	U	540	U	450	U	330	U
2-Methylnaphthalene	420	U	430	U	540	U	220	J	330	U
Hexachlorocyclopentadiene	420	U	430	U	540	U	450	U	330	U
2,4,6-Trichlorophenol	420	U	430	U	540	U	450	U	330	U
2,4,5-Trichlorophenol	1100	U	1100	U	1400	U	1100	U	830	U
1,1'-Biphenyl	420	U	430	U	540	U	450	U	330	U
2-Chloronaphthalene	420	U	430	U	540	U	450	U	330	U
2-Nitroaniline	1100	U	1100	U	1400	U	1100	U	830	U
Dimethylphthalate	420	U	430	U	540	U	450	U	330	U
2,6-Dinitrotoluene	420	U	430	U	540	U	450	U	330	U
Acenaphthylene	420	U	430	U	540	U	450	U	330	U
3-Nitroaniline	1100	U	1100	U	1400	U	1100	U	830	U
Acenaphthene	420	U	430	U	540	U	450	U	330	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE025
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE026		EE027		EE028		EE029		SBLKUO	
Sampling Location :	X126		X127		X128		X129			
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/9/00		11/9/00		11/9/00		11/9/00			
Time Sampled :	10:25		12:00		12:15		15:45			
%Moisture :	21		24		39		26		N/A	
pH :	7.2		7.7		8.0		8.5			
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1100	U	1100	U	1400	UJ	1100	UJ	830	U
4-Nitrophenol	1100	U	1100	U	1400	U	1100	U	830	U
Dibenzofuran	420	U	430	U	540	U	450	U	330	U
2,4-Dinitrotoluene	420	U	430	U	540	U	450	U	330	U
Diethylphthalate	420	U	430	U	540	U	450	U	330	U
Fluorene	420	U	430	U	540	U	450	U	330	U
4-Chlorophenyl-phenyl ether	420	U	430	U	540	U	450	U	330	U
4-Nitroaniline	1100	UJ	1100	UJ	1400	UJ	1100	UJ	830	UJ
4,6-Dinitro-2-methylphenol	1100	U	1100	U	1400	U	1100	U	830	U
N-Nitrosodiphenylamine	420	U	430	U	540	U	450	U	330	U
4-Bromophenyl-phenylether	420	U	430	U	540	U	450	U	330	U
Hexachlorobenzene	420	U	430	U	540	U	450	U	330	U
Atrazine	420	U	430	U	540	U	450	U	330	U
Pentachlorophenol	1100	UJ	1100	UJ	1400	U	1100	U	830	UJ
Phenanthrene	420	U	430	U	540	U	140	J	330	U
Anthracene	420	U	430	U	540	U	450	U	330	U
Carbazole	420	UJ	430	UJ	540	UJ	450	UJ	330	UJ
Di-n-butylphthalate	420	U	430	U	540	U	450	U	330	U
Fluoranthene	420	U	430	U	540	U	450	U	330	U
Pyrene	420	U	430	U	540	U	450	U	330	U
Butylbenzylphthalate	420	U	430	U	540	U	450	U	330	U
3,3'-Dichlorobenzidine	420	UJ	430	UJ	540	U	450	U	330	UJ
Benzo(a)anthracene	420	U	430	U	540	U	450	U	330	U
Chrysene	420	U	430	U	540	U	450	U	330	U
bis(2-Ethylhexyl)phthalate	420	U	430	U	60	J	450	U	66	J
Di-n-octylphthalate	420	U	430	U	540	U	450	U	330	U
Benzo(b)fluoranthene	420	U	430	U	540	U	450	U	330	U
Benzo(k)fluoranthene	420	U	430	U	540	U	450	U	330	U
Benzo(a)pyrene	420	U	430	U	540	U	450	U	330	U
Indeno(1,2,3-cd)pyrene	420	U	430	U	540	U	450	U	330	U
Dibenzo(a,h)anthracene	420	U	430	U	540	U	450	U	330	U
Benzo(g,h,i)perylene	420	U	430	U	540	U	450	U	330	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE025
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Number of Soil Samples : 6
Number of Water Samples : 0

Sample Number :	EE02A		EE02ADL		EE025		EE025MS		EE025MSD	
Sampling Location :	X130		X130		X125		X125		X125	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/9/00		11/9/00		11/9/00		11/9/00		11/9 00	
Time Sampled	16:00		16:00		10:00		10:00		10:00	
%Moisture	26		26		22		22		22	
pH :	8.5		8.5		6.5		6.5		6.5	
Dilution Factor :	1.0		2.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	450	U	890	U	420	U	420	U	420	U
Phenol	450	U	890	U	420	UJ	1300		2400	
bis-(2-Chloroethyl) ether	450	U	890	U	420	U	420	U	420	U
2-Chlorophenol	450	U	890	U	420	UJ	1200		2200	
2-Methylphenol	450	U	890	U	420	U	420	U	420	U
2,2'-oxybis(1-Chloropropane)	450	U	890	U	420	U	420	U	420	U
Acetophenone	450	U	890	U	420	U	420	U	420	U
4-Methylphenol	450	U	890	U	420	U	420	U	420	U
N-Nitroso-di-n-propylamine	450	U	890	U	420	UJ	780		1500	
Hexachloroethane	450	U	890	U	420	U	420	U	420	U
Nitrobenzene	450	U	890	U	420	U	420	U	420	U
Isophorone	450	U	890	U	420	U	420	U	420	U
2-Nitrophenol	450	U	890	U	420	U	420	U	420	U
2,4-Dimethylphenol	450	U	890	U	420	U	420	U	420	U
bis(2-Chloroethoxy)methane	450	U	890	U	420	U	420	U	420	U
2,4-Dichlorophenol	450	U	890	U	420	U	420	U	420	U
Naphthalene	660		810	J	420	U	420	U	420	U
4-Chloroaniline	450	U	890	U	420	U	420	U	420	U
Hexachlorobutadiene	450	U	890	U	420	U	420	U	420	U
Caprolactam	450	U	890	U	420	U	420	U	420	U
4-Chloro-3-methylphenol	450	U	890	U	420	UJ	1300		2400	
2-Methylnaphthalene	5100		6400		420	U	420	U	420	U
Hexachlorocyclopentadiene	450	U	890	UJ	420	U	420	U	420	U
2,4,6-Trichlorophenol	450	U	890	U	420	U	420	U	420	U
2,4,5-Trichlorophenol	1100	U	2200	U	1100	U	1100	U	1100	U
1,1'-Biphenyl	86	J	120	J	420	U	420	U	420	U
2-Chloronaphthalene	450	U	890	U	420	U	420	U	420	U
2-Nitroaniline	1100	U	2200	U	1100	U	1100	U	1100	U
Dimethylphthalate	450	U	890	U	420	U	420	U	420	U
2,6-Dinitrotoluene	450	U	890	U	420	U	420	U	420	U
Acenaphthylene	450	U	890	U	420	U	420	U	420	U
3-Nitroaniline	1100	U	2200	U	1100	U	1100	U	1100	U
Acenaphthene	120	J	210	J	420	UJ	720		1400	

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE025
Site : CLARK OIL
Lab. : LIBRTY
Reviewer
Date :

Sample Number :	EE02A		EE02ADL		EE025		EE025MS		EE025MSD	
Sampling Location :	X130		X130		X125		X125		X125	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/9/00		11/9/00		11/9/00		11/9/00		11/9/00	
Time Sampled :	16:00		16:00		10:00		10:00		10:00	
%Moisture :	26		26		22		22		22	
pH :	8.5		8.5		6.5		6.5		6.5	
Dilution Factor :	1.0		2.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1100	U	2200	UJ	1100	U	1100	U	1100	U
4-Nitrophenol	1100	U	2200	UJ	1100	UJ	1200		2500	
Dibenzofuran	140	J	170	J	420	U	420	U	420	U
2,4-Dinitrotoluene	450	U	890	U	420	UJ	720		1400	
Diethylphthalate	450	U	890	U	420	U	420	U	420	U
Fluorene	270	J	350	J	420	U	420	U	420	U
4-Chlorophenyl-phenyl ether	450	U	890	U	420	U	420	U	420	U
4-Nitroaniline	1100	U	2200	U	1100	U	1100	UJ	1100	UJ
4,6-Dinitro-2-methylphenol	1100	U	2200	UJ	1100	U	1100	U	1100	U
N-Nitrosodiphenylamine	450	U	890	U	420	U	420	U	420	U
4-Bromophenyl-phenylether	450	U	890	U	420	U	420	U	420	U
Hexachlorobenzene	450	U	890	U	420	U	420	U	420	U
Atrazine	450	U	890	U	420	U	150	J	420	U
Pentachlorophenol	1100	U	2200	U	1100	UJ	720	J	1500	J
Phenanthrene	770		970		420	U	420	U	420	U
Anthracene	66	J	890	U	420	U	420	U	420	U
Carbazole	450	U	890	UJ	420	U	420	UJ	420	UJ
Di-n-butylphthalate	450	U	890	U	420	U	420	U	420	U
Fluoranthene	450	U	890	U	420	U	420	U	420	U
Pyrene	74	J	95	J	420	UJ	760		1400	
Butylbenzylphthalate	450	U	890	U	420	U	420	U	420	U
3,3'-Dichlorobenzidine	450	U	890	U	420	U	420	UJ	420	UJ
Benzo(a)anthracene	450	U	890	U	420	U	420	U	420	U
Chrysene	450	U	890	U	420	U	420	U	420	U
bis(2-Ethylhexyl)phthalate	450	U	890	U	420	U	420	U	420	U
Di-n-octylphthalate	450	U	890	U	420	U	420	U	420	U
Benzo(b)fluoranthene	450	U	890	U	420	U	420	U	420	U
Benzo(k)fluoranthene	450	U	890	U	420	U	420	U	420	U
Benzo(a)pyrene	450	U	890	U	420	U	420	U	420	U
Indeno(1,2,3-cd)pyrene	450	U	890	U	420	U	420	U	420	U
Dibenzo(a,h)anthracene	450	U	890	U	420	U	420	U	420	U
Benzo(g,h,i)perylene	450	U	890	U	420	U	420	U	420	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE025
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	VHBLKXT		VBLKYT							
Sampling Location :										
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A							
pH :										
Dilution Factor :	1.0		1.0							
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10	UJ	10	UJ						
Chloromethane	10	U	10	U						
Vinyl Chloride	10	U	10	U						
Bromomethane	10	U	10	U						
Chloroethane	10	U	10	U						
Trichlorofluoromethane	10	U	10	U						
1,1-Dichloroethene	10	U	10	U						
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	U						
Acetone	10	UJ	10	UJ						
Carbon Disulfide	10	U	10	U						
Methyl Acetate	10	U	10	U						
Methylene Chloride	10	U	10	U						
trans-1,2-Dichloroethene	10	U	10	U						
Methyl tert-Butyl Ether	10	U	10	U						
1,1-Dichloroethane	10	U	10	U						
cis-1,2-Dichloroethene	10	U	10	U						
2-Butanone	10	U	10	U						
Chloroform	10	U	10	U						
1,1,1-Trichloroethane	10	U	10	U						
Cyclohexane	10	U	10	U						
Carbon Tetrachloride	10	U	10	U						
Benzene	10	U	10	U						
1,2-Dichloroethane	10	U	10	U						
Trichloroethene	10	U	10	U						
Methylcyclohexane	10	U	10	U						
1,2-Dichloropropane	10	U	10	U						
Bromodichloromethane	10	U	10	U						
cis-1,3-Dichloropropene	10	U	10	U						
4-Methyl-2-pentanone	10	U	10	U						
Toluene	10	U	10	U						
trans-1,3-Dichloropropene	10	U	10	U						
1,1,2-Trichloroethane	10	U	10	U						
Tetrachloroethene	10	U	10	U						

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE025
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	VHBLKXT		VBLKYT							
Sampling Location :										
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A							
pH :										
Dilution Factor :	1.0		1.0							
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10	U	10	U						
Dibromochloromethane	10	U	10	U						
1,2-Dibromoethane	10	U	10	U						
Chlorobenzene	10	U	10	U						
Ethylbenzene	10	U	10	U						
Xylenes (total)	10	U	10	U						
Styrene	10	U	10	U						
Bromoform	10	U	10	U						
Isopropylbenzene	10	U	10	U						
1,1,2,2-Tetrachloroethane	10	U	10	U						
1,3-Dichlorobenzene	10	U	10	U						
1,4-Dichlorobenzene	10	U	10	U						
1,2-Dichlorobenzene	10	U	10	U						
1,2-Dibromo-3-chloropropane	10	UJ	3	J						
1,2,4-Trichlorobenzene	10	U	1	J						

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE025
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	VBLKVL		VBLKVX		VBLKWA		VBLKXT			
Sampling Location :										
Matrix :	Soil		Soil		Soil		Soil			
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10	U	10	U	1200	U	1200	UJ		
Chloromethane	10	U	10	U	1200	U	1200	U		
Vinyl Chloride	10	U	10	U	1200	U	1200	U		
Bromomethane	10	U	10	U	1200	U	1200	U		
Chloroethane	10	U	10	U	1200	U	1200	U		
Trichlorofluoromethane	10	UJ	10	UJ	1200	U	1200	U		
1,1-Dichloroethene	10	U	10	U	1200	U	1200	U		
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	U	1200	U	160	J		
Acetone	3	J	10	UJ	1200	U	1200	J		
Carbon Disulfide	10	UJ	10	U	1200	U	1200	U		
Methyl Acetate	10	UJ	10	UJ	1200	U	1200	U		
Methylene Chloride	3	J	10	U	1200	U	1100	J		
trans-1,2-Dichloroethene	10	U	10	U	1200	U	1200	U		
Methyl tert-Butyl Ether	10	U	10	U	1200	U	1200	U		
1,1-Dichloroethane	10	U	10	U	1200	U	1200	U		
cis-1,2-Dichloroethene	10	U	10	U	1200	U	1200	U		
2-Butanone	10	UJ	10	UJ	1200	U	1200	U		
Chloroform	10	U	10	U	1200	U	1200	U		
1,1,1-Trichloroethane	10	U	10	U	1200	U	1200	U		
Cyclohexane	10	U	10	U	1200	U	1200	U		
Carbon Tetrachloride	10	U	10	U	1200	U	1200	U		
Benzene	10	U	10	U	1200	U	1200	U		
1,2-Dichloroethane	10	U	10	UJ	1200	U	1200	U		
Trichloroethene	10	U	10	U	1200	U	1200	U		
Methylcyclohexane	10	U	10	U	1200	U	1200	U		
1,2-Dichloropropane	10	U	10	U	1200	U	1200	U		
Bromodichloromethane	10	U	10	U	1200	U	1200	U		
cis-1,3-Dichloropropene	10	U	10	U	1200	U	1200	U		
4-Methyl-2-pentanone	10	UJ	10	UJ	1200	U	1200	U		
Toluene	10	U	10	U	1200	U	130	J		
trans-1,3-Dichloropropene	10	U	10	U	1200	U	1200	U		
1,1,2-Trichloroethane	10	U	10	U	1200	U	1200	U		
Tetrachloroethene	10	U	10	U	1200	U	1200	U		

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE025
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	VBLKVL		VBLKVX		VBLKWA		VBLKXT			
Sampling Location :										
Matrix :	Soil		Soil		Soil		Soil			
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10	UJ	10	UJ	1200	U	1200	U		
Dibromochloromethane	10	U	10	U	1200	U	1200	U		
1,2-Dibromoethane	10	U	10	U	1200	U	1200	U		
Chlorobenzene	10	U	10	U	1200	U	1200	U		
Ethylbenzene	10	U	10	U	1200	U	1200	U		
Xylenes (total)	10	U	10	U	1200	U	1200	U		
Styrene	10	U	10	U	1200	U	1200	U		
Bromoform	10	U	10	U	1200	U	1200	U		
Isopropylbenzene	10	U	10	U	1200	U	1200	U		
1,1,2,2-Tetrachloroethane	10	U	10	UJ	1200	U	1200	U		
1,3-Dichlorobenzene	10	U	10	U	1200	U	1200	U		
1,4-Dichlorobenzene	10	U	10	U	1200	U	1200	U		
1,2-Dichlorobenzene	10	U	10	U	1200	U	1200	U		
1,2-Dibromo-3-chloropropane	10	U	10	UJ	1200	UJ	1200	UJ		
1,2,4-Trichlorobenzene	10	U	1	J	1200	U	1200	U		

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE025
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE025MSD		EE026		EE027		EE028		EE029	
Sampling Location :	X125		X126		X127		X128		X129	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/9/00		11/9/00		11/9/00		11/9/00		11/9/00	
Time Sampled :	10:00		10:25		12:00		12:15		15:45	
%Moisture :	22		21		24		39		26	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	12	U	14	U	11	U	16	U	12	U
Chloromethane	12	U	14	U	11	U	16	U	12	U
Vinyl Chloride	12	U	14	U	11	U	16	U	12	U
Bromomethane	12	U	14	U	11	U	16	U	12	U
Chloroethane	12	U	14	U	11	U	16	U	12	U
Trichlorofluoromethane	3	J	14	UJ	11	UJ	16	UJ	2	J
1,1-Dichloroethene	54		14	U	11	U	16	U	12	U
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	14	U	11	U	16	U	12	U
Acetone	2	J	14	UJ	160	J	29	UJ	49	J
Carbon Disulfide	12	U	14	UJ	2	J	16	UJ	4	J
Methyl Acetate	12	UJ	14	UJ	11	UJ	16	UJ	12	UJ
Methylene Chloride	7	J	24	U	18	U	17	U	17	U
trans-1,2-Dichloroethene	12	U	14	U	11	U	16	U	12	U
Methyl tert-Butyl Ether	12	U	14	U	11	U	16	U	12	U
1,1-Dichloroethane	12	U	14	U	11	U	16	U	12	U
cis-1,2-Dichloroethene	12	U	14	U	11	U	16	U	12	U
2-Butanone	12	UJ	14	UJ	23	J	16	UJ	12	UJ
Chloroform	12	U	14	U	11	U	16	U	12	U
1,1,1-Trichloroethane	12	U	14	U	11	U	16	U	12	U
Cyclohexane	12	U	14	U	11	U	16	U	12	U
Carbon Tetrachloride	12	U	14	U	11	U	16	U	12	U
Benzene	49		14	U	11	U	16	U	53	
1,2-Dichloroethane	12	UJ	14	U	11	U	16	U	12	U
Trichloroethene	48		14	U	11	U	16	U	12	U
Methylcyclohexane	12	U	14	U	11	U	16	U	120	
1,2-Dichloropropane	12	U	14	U	11	U	16	U	12	U
Bromodichloromethane	12	U	14	U	11	U	16	U	12	U
cis-1,3-Dichloropropene	12	U	14	U	11	U	16	U	12	U
4-Methyl-2-pentanone	12	UJ	14	UJ	11	UJ	16	UJ	12	UJ
Toluene	50		2	J	3	J	16	U	4	J
trans-1,3-Dichloropropene	12	U	14	U	11	U	16	U	12	U
1,1,2-Trichloroethane	12	U	14	U	11	U	16	U	12	U
Tetrachloroethene	1	J	14	U	11	U	16	U	12	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE025
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE025MSD		EE026		EE027		EE028		EE029	
Sampling Location :	X125		X126		X127		X128		X129	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/9/00		11/9/00		11/9/00		11/9/00		11/9/00	
Time Sampled :	10:00		10:25		12:00		12:15		15:45	
%Moisture :	22		21		24		39		26	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	12	UJ	14	UJ	11	UJ	16	UJ	12	UJ
Dibromochloromethane	12	U	14	U	11	U	16	U	12	U
1,2-Dibromoethane	12	U	14	U	11	U	16	U	12	U
Chlorobenzene	48		14	U	11	U	16	U	12	U
Ethylbenzene	12	U	14	U	11	U	16	U	3	J
Xylenes (total)	12	U	4	J	11	U	16	U	8	J
Styrene	12	U	14	U	11	U	16	U	12	U
Bromoform	12	U	14	U	11	U	16	U	12	U
Isopropylbenzene	12	U	14	U	11	U	16	U	18	
1,1,2,2-Tetrachloroethane	12	UJ	14	U	11	U	16	U	12	U
1,3-Dichlorobenzene	12	U	14	U	11	U	16	U	12	U
1,4-Dichlorobenzene	12	U	14	U	11	U	16	U	12	U
1,2-Dichlorobenzene	12	U	14	U	11	U	16	U	12	U
1,2-Dibromo-3-chloropropane	12	UJ	14	U	11	U	16	U	12	U
1,2,4-Trichlorobenzene	12	U	14	U	11	U	16	U	12	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE025
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Number of Soil Samples : 6
Number of Water Samples : 0

Sample Number :	EE02A		EE02AMS		EE02AMSD		EE025		EE025MS	
Sampling Location :	X130		X130		X130		X125		X125	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/9/00		11/9/00		11/9/00		11/9/00		11/9/00	
Time Sampled :	16:00		16:00		16:00		10:00		10:00	
%Moisture :	26		26		26		22		22	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	16000	U	16000	UJ	16000	UJ	11	U	11	U
Chloromethane	16000	U	16000	U	16000	U	11	U	11	U
Vinyl Chloride	16000	U	16000	U	16000	U	11	U	11	U
Bromomethane	16000	U	16000	U	16000	U	11	U	11	U
Chloroethane	16000	U	16000	U	16000	U	11	U	11	U
Trichlorofluoromethane	16000	U	16000	U	16000	U	1	J	1	J
1,1-Dichloroethene	16000	U	9900	J	11000	J	11	U	48	
1,1,2-Trichloro-1,2,2-trifluoroethane	16000	U	16000	U	16000	U	11	U	11	U
Acetone	24000		18000	UJ	17000	UJ	49	J	40	J
Carbon Disulfide	16000	U	16000	U	16000	U	11	UJ	11	U
Methyl Acetate	16000	U	16000	U	16000	U	11	UJ	11	UJ
Methylene Chloride	4100	J	16000	U	16000	U	11	U	11	
trans-1,2-Dichloroethene	16000	U	16000	U	16000	U	11	U	11	U
Methyl tert-Butyl Ether	16000	U	16000	U	16000	U	11	U	11	U
1,1-Dichloroethane	16000	U	16000	U	16000	U	11	U	11	U
cis-1,2-Dichloroethene	16000	U	16000	U	16000	U	11	U	11	U
2-Butanone	16000	U	16000	U	16000	U	4	J	5	J
Chloroform	16000	U	16000	U	16000	U	11	U	11	U
1,1,1-Trichloroethane	16000	U	16000	U	16000	U	11	U	11	U
Cyclohexane	16000	U	16000	U	16000	U	11	U	11	U
Carbon Tetrachloride	16000	U	16000	U	16000	U	11	U	11	U
Benzene	34000	J	9700	J	12000	J	11	U	48	
1,2-Dichloroethane	16000	U	16000	U	16000	U	11	U	11	UJ
Trichloroethene	16000	U	8100	J	9000	J	11	U	46	
Methylcyclohexane	89000		44000		77000		11	U	11	U
1,2-Dichloropropane	16000	U	16000	U	16000	U	11	U	11	U
Bromodichloromethane	16000	U	16000	U	16000	U	11	U	11	U
cis-1,3-Dichloropropene	16000	U	16000	U	16000	U	11	U	11	U
4-Methyl-2-pentanone	16000	U	16000	U	16000	U	11	UJ	11	UJ
Toluene	16000	U	8200	J	8900	J	11	U	49	
trans-1,3-Dichloropropene	16000	U	16000	U	16000	U	11	U	11	U
1,1,2-Trichloroethane	16000	U	16000	U	16000	U	11	U	11	U
Tetrachloroethene	16000	U	16000	U	16000	U	11	U	11	U

Analytical Results (Qualified Data)

Case #: 28678 SDG : EE025
Site : CLARK OIL
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	EE02A		EE02AMS		EE02AMSD		EE025		EE025MS	
Sampling Location :	X130		X130		X130		X125		X125	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/9/00		11/9/00		11/9/00		11/9/00		11/9/00	
Time Sampled :	16:00		16:00		16:00		10:00		10:00	
%Moisture :	26		26		26		22		22	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	16000	U	16000	U	16000	U	11	UJ	11	UJ
Dibromochloromethane	16000	U	16000	U	16000	U	11	U	11	U
1,2-Dibromoethane	16000	U	16000	U	16000	U	11	U	11	U
Chlorobenzene	16000	U	7700	J	8600	J	11	U	47	
Ethylbenzene	110000		59000		110000		11	U	11	U
Xylenes (total)	160000		87000		160000		11	U	11	U
Styrene	16000	U	16000	U	16000	U	11	U	11	U
Bromoform	16000	U	16000	U	16000	U	11	U	11	U
Isopropylbenzene	17000		9000	J	17000		11	U	11	U
1,1,2,2-Tetrachloroethane	16000	U	16000	U	16000	U	11	U	11	UJ
1,3-Dichlorobenzene	16000	U	16000	U	16000	U	11	U	11	U
1,4-Dichlorobenzene	16000	U	16000	U	16000	U	11	U	11	U
1,2-Dichlorobenzene	16000	U	16000	U	16000	U	11	U	11	U
1,2-Dibromo-3-chloropropane	16000	UJ	16000	UJ	16000	UJ	11	U	11	UJ
1,2,4-Trichlorobenzene	16000	U	16000	U	16000	U	11	U	11	U

Semivolatile Analysis Data - SBLK00
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE025

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (BC)	9.31	99.[illegible]	J

FILE NAME: EE025.SDG DATE: 11/28/2000 TIME: 14:39 CADRE99 PAGE: 14

Semivolatile Analysis Data - EE027
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE025

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN AMIDE	14.61	210.[illegible]	J
	UNKNOWN	24.88	92.200	J

FILE NAME: EE025.SDG DATE: 11/28/2000 TIME: 14:39 CADRE99 PAGE: 15

Semivolatile Analysis Data - SBLKVV
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE025

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (BC)	7.75	800.400	J
57-10-3	HEXADECANOIC ACID	19.29	96.750	NJ

FILE NAME: EE025.SDG DATE: 11/28/2000 TIME: 14:39 CADRE99 PAGE: 16

Semivolatile Analysis Data - EE02A
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE025

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	SUBSTITUTED BENZENE	11.72	4436.000	J
	SUBSTITUTED BENZENE	12.51	535.000	J
24949-42-6	6-TRIDECENE, 7-METHYL-	13.14	524.000	NJ
	UNKNOWN	13.36	505.500	J
264-09-5	BENZOCYCLOHEPTATRIENE	13.63	1107.000	NJ
	UNKNOWN	13.83	966.800	J
	UNKNOWN	14.40	515.300	J
1127-76-0	NAPHTHALENE, 1-ETHYL-	14.51	1228.000	NJ
575-43-9	NAPHTHALENE, 1,6-DIMETHYL-	14.64	1111.000	NJ
581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	14.79	1342.000	NJ
575-43-9	NAPHTHALENE, 1,6-DIMETHYL-	14.84	909.400	NJ
	UNKNOWN	14.89	901.500	J
	DIMETHYLNAPHTHALENE	15.00	1397.000	J
	ETHYLNAPHTHALENE	15.18	625.000	J
	UNKNOWN	15.52	888.400	J
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	15.64	717.600	NJ
	TRIMETHYLNAPHTHALENE	15.76	503.100	J
	UNKNOWN	15.82	727.800	J
829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL-	15.86	556.400	NJ
2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL-	15.91	1036.000	NJ
	UNKNOWN	15.99	687.000	J
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	16.09	1094.000	NJ
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	16.23	946.[illegible]	NJ
	UNKNOWN	16.53	781.[illegible]	J
	UNKNOWN	16.63	517.500	J
529-05-5	AZULENE, 7-ETHYL-1,4-DIMETHYL-	17.19	1212.000	NJ
132-65-0	DIBENZOTHIOPHENE	18.02	1124.000	NJ

FILE NAME: EE025.SDG DATE: 11/28/2000 TIME: 14:39 CADRE99 PAGE: 17

Semivolatile Analysis Data - EE025
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE025

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	8.14	124.800	J
	UNKNOWN	17.12	96.190	J
	UNKNOWN	20.01	107.900	J
	UNKNOWN AMIDE	22.11	119.400	J
103-23-1	HEXANEDIOIC ACID, BIS(2-ETHYLHEXYL) ESTE	22.26	231.200	NJ
	UNKNOWN	22.61	113.100	J
	UNKNOWN PHTHALATE	23.81	151.400	J
	UNKNOWN PHTHALATE	23.91	171.500	J
	UNKNOWN PHTHALATE	24.01	296.600	J
	UNKNOWN PHTHALATE	24.06	309.600	J
	UNKNOWN PHTHALATE	24.15	681.400	J
	UNKNOWN PHTHALATE	24.27	1947.000	J
	UNKNOWN PHTHALATE	24.37	421.100	J
28553-12-0	1,2-BENZENEDICARBOXYLIC ACID, DIISONONYL	24.47	2124.000	NJ
	UNKNOWN	24.54	700.600	J
	UNKNOWN PHTHALATE	24.62	2184.000	J
	UNKNOWN PHTHALATE	24.71	1092.000	J
	UNKNOWN PHTHALATE	24.79	1697.000	J
	UNKNOWN PHTHALATE	24.87	1342.000	J
28553-12-0	1,2-BENZENEDICARBOXYLIC ACID, DIISONONYL	24.96	1360.000	NJ
28553-12-0	1,2-BENZENEDICARBOXYLIC ACID, DIISONONYL	25.03	1049.000	NJ
	UNKNOWN PHTHALATE	25.11	802.100	J
	UNKNOWN PHTHALATE	25.20	586.400	J
	UNKNOWN PHTHALATE	25.28	489.400	J
	UNKNOWN PHTHALATE	25.45	226.500	J
	UNKNOWN	28.68	715.200	J
	UNKNOWN	28.96	194.100	J

Semivolatile Analysis Data - EE02ADL
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE025

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	SUBSTITUTED NAPHTHALENE	11.71	3351.000	JD
90-12-0	NAPHTHALENE, 1-METHYL-	13.60	6095.000	NJD
	UNKNOWN	13.80	1693.000	JD
	UNKNOWN	14.04	775.300	JD
	SUBSTITUTED NAPHTHALENE	14.46	849.500	JD
939-27-5	NAPHTHALENE, 2-ETHYL-	14.49	1116.000	NJD
575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	14.61	1809.000	NJD
581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	14.78	1594.000	NJD
581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	14.81	1478.000	NJD
	SUBSTITUTED NAPHTHALENE	15.17	976.400	JD
2027-17-0	NAPHTHALENE, 2-(1-METHYLETHYL)-	15.62	1235.000	NJD
	UNKNOWN	15.81	1455.000	JD
829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL-	15.84	1288.000	NJD
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	15.89	2189.000	NJD
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	16.08	1608.000	NJD
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	16.21	1428.000	NJD
	UNKNOWN	16.37	735.600	JD
	UNKNOWN	16.40	812.800	JD
	UNKNOWN	16.52	1048.000	JD
	UNKNOWN	16.57	689.100	JD
	UNKNOWN	16.62	662.000	JD
	UNKNOWN	16.69	752.000	JD
	UNKNOWN	17.55	2242.000	JD
132-65-0	DIBENZOTHIOPHENE	18.00	2097.000	NJD

Volatile Analysis Data - EE029
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE025

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	BRANCHED ALKANE	4.85	[illegible]	J
	UNKNOWN	7.09	73.670	J
	BRANCHED ALKANE	7.19	161.100	J
	BRANCHED ALKANE	7.60	141.900	J
	CYCLIC ALKANE	8.85	226.500	J
	BRANCHED ALKANE	9.89	263.100	J
	BRANCHED ALKANE	10.06	35.190	J
	BRANCHED ALKANE	10.37	254.700	J
	CYCLIC ALKANE	12.91	36.550	J
	CYCLIC ALKANE	13.12	29.810	J
	CYCLIC ALKANE	13.27	34.910	J
	CYCLIC ALKANE	13.85	32.780	J
	CYCLIC ALKANE	13.93	41.600	J
	SUBSTITUTED BENZENE	15.98	105.500	J
	SUBSTITUTED BENZENE	17.10	105.800	J
934-80-5	BENZENE, 4-ETHYL-1,2-DIMETHYL-	17.51	134.900	NJ
	SUBSTITUTED BENZENE	17.62	193.900	J
535-77-3	BENZENE, 1-METHYL-3-(1-METHYLETHYL)-	17.86	153.900	NJ
824-22-6	1H-INDENE, 2,3-DIHYDRO-4-METHYL-	18.15	125.400	NJ
	UNKNOWN PAH	18.30	303.900	J
	BRANCHED ALKANE	18.38	107.300	J
	UNKNOWN	18.44	93.650	J
4175-83-5	1H-INDENE, 2,3-DIHYDRO-1,3-DIMETHYL-	18.59	247.700	NJ
56283-64-6	BENZENE, (2-METHYL-1-BUTENYL)-	18.71	231.500	NJ
	BRANCHED ALKANE	18.77	113.000	J
	UNKNOWN	18.88	178.800	J
	UNKNOWN PAH	19.00	130.000	J
	UNKNOWN	19.05	133.600	J
17059-48-2	1H-INDENE, 2,3-DIHYDRO-1,6-DIMETHYL-	19.17	259.300	NJ
6682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-DIMETHYL-	19.34	238.200	NJ
	SUBSTITUTED BENZENE	19.46	134.400	J
	UNKNOWN PAH	19.52	202.700	J
	UNKNOWN	19.66	193.900	J
	UNKNOWN PAH	19.81	150.800	J
	UNKNOWN	19.96	74.790	J
264-09-5	BENZOCYCLOHEPTATRIENE	20.05	459.400	NJ
	UNKNOWN	20.29	81.290	J
	UNKNOWN	20.46	97.570	J
	UNKNOWN	20.60	160.200	J
	UNKNOWN	20.70	84.670	J
1127-76-0	NAPHTHALENE, 1-ETHYL-	20.86	173.100	NJ
575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	21.00	235.100	NJ
575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	21.20	245.400	NJ
575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	21.52	78.050	NJ

Volatile Analysis Data - VBLKVX
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE025

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
556-67-2	CYCLOTETRASILOXANE, OCTAMETHYL-	16.01	29.260	NJ
	LABORATORY ARTIFACT	17.72	59.790	J
	LABORATORY ARTIFACT	19.26	11.160	J

Semivolatile Analysis Data - SBLKUU
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE025

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (BC)	7.75	479.600	J
	UNKNOWN (BC)	9.29	39.300	J
	UNKNOWN (BC)	24.86	152.100	J

FILE NAME: EE025.SDG DATE: 11/28/2000 TIME: 14:39 CADRE99 PAGE: 11

Semivolatile Analysis Data - EE028
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE025

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	28.85	113.400	J

FILE NAME: EE025.SDG DATE: 11/28/2000 TIME: 14:39 CADRE99 PAGE: 12

Semivolatile Analysis Data - EE029
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE025

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
90-12-0	NAPHTHALENE, 1-METHYL-	13.65	462.600	NJ
	ETHYLNAPHTHALENE	14.53	303.900	J
575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	14.65	621.200	NJ
581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	14.82	923.900	NJ
	UNKNOWN	14.92	185.700	J
581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	15.02	634.000	NJ
571-58-4	NAPHTHALENE, 1,4-DIMETHYL-	15.21	212.800	NJ
[illegible]	NAPHTHALENE, 2-(1-METHYLETHYL -	15.67	258.600	NJ
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	15.89	410.100	NJ
2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL-	15.94	324.200	NJ
2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL-	16.12	373.200	NJ
829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL-	16.26	[illegible]	[illegible]
	UNKNOWN	17.53	184.200	J
	UNKNOWN	17.61	321.700	J
	UNKNOWN	17.83	285.900	J
	UNKNOWN	18.05	255.400	J
	UNKNOWN	18.39	206.800	J
7372-88-5	DIBENZOTHIOPHENE, 4-METHYL-	18.88	207.700	NJ
7372-88-5	DIBENZOTHIOPHENE, 4-METHYL-	19.05	187.600	NJ
	METHYLANTHRACENE	19.20	210.500	J
610-48-0	ANTHRACENE, 1-METHYL-	19.26	217.900	NJ
	UNKNOWN	19.48	256.000	J
	UNKNOWN	19.76	164.100	J
1207-15-4	2,8-DIMETHYLDIBENZO(B,D)THIOPHENE	19.85	233.500	NJ
16587-34-1	NAPHTHO[2,3-B]THIOPHENE, 4,9-DIMETHYL-	20.05	218.600	NJ
	UNKNOWN	20.15	289.600	J
3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	20.27	[illegible]	NJ
	UNKNOWN	20.51	173.800	J
	UNKNOWN	20.88	207.200	J
	UNKNOWN	28.86	681.800	J

FILE NAME: EE025.SDG DATE: 11/28/2000 TIME: 14:39 CADRE99 PAGE: 13

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE02ADL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-6

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE025-6DA66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 26 Decanted: (Y/N) N Date Extracted:11/18/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/21/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

Number TICs found: 24

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	SUBSTITUTED NAPHTHALENE	11.71	3400	JD
2. 90-12-0	NAPHTHALENE, 1-METHYL-	13.60	6100	NJD
3.	UNKNOWN	13.80	1700	JD
4.	UNKNOWN	14.04	780	JD
5.	SUBSTITUTED NAPHTHALENE	14.46	850	JD
6. 939-27-5	NAPHTHALENE, 2-ETHYL-	14.49	1100	NJD
7. 575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	14.61	1800	NJD
8. 581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	14.78	1600	NJD
9. 581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	14.81	1500	NJD
10.	SUBSTITUTED NAPHTHALENE	15.17	980	JD
11. 2027-17-0	NAPHTHALENE, 2-(1-METHYLETHY	15.62	1200	NJD
12.	UNKNOWN	15.81	1500	JD
13. 829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL	15.84	1300	NJD
14. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	15.89	2200	NJD
15. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	16.08	1600	NJD
16. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	16.21	1400	NJD
17.	UNKNOWN	16.37	740	JD
18.	UNKNOWN	16.40	810	JD
19.	UNKNOWN	16.52	1000	JD
20.	UNKNOWN	16.57	690	JD
21.	UNKNOWN	16.62	660	JD
22.	UNKNOWN	16.69	750	JD
23.	UNKNOWN	17.55	2200	JD
24. 132-65-0	DIBENZOTHIOPHENE	18.00	2100	NJD
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FORM I SV-TIC OLM04.2

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKUU

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE02

Matrix: (soil/water) SOIL Lab Sample ID: WG6926-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG6926-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1G

EPA SAMPLE NO.

SBLKUU

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6926-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: WG6926-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Extraction: (Type) SONC

Number TICs found: 3

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	7.75	480	J
2.	UNKNOWN (BC)	9.29	39	J
3.	UNKNOWN (BC)	24.86	150	J
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FORM I SV-TIC OLM04.2

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKUU

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE02

Matrix: (soil/water) SOIL Lab Sample ID: WG6926-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG6926-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKUO

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6910-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG6910-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/17/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	66	J
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKUO

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: WG6910-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG6910-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/17/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKVV

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG7032-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG7032-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/18/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/20/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKUO

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE02

Matrix: (soil/water) SOIL Lab Sample ID: WG6910-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: WG6910-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/14/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/17/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Extraction: (Type) SONC

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	9.31	90	J
2. 57-10-3	HEXADECANOIC ACID	19.35	68	NJ
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EPA SAMPLE NO.

SBLKVV

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG7032-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: WG7032-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/18/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/20/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Extraction: (Type) SONC

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	7.75	800	J
2. 57-10-3	HEXADECANOIC ACID	19.28	97	NJ
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FORM I SV-TIC OLM04.2

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKVV

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE02

Matrix: (soil/water) SOIL Lab Sample ID: WG7032-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG7032-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/18/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/20/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	78	J
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix Spike - EPA Sample No.: EE025

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	21	0.0	17	81	46-127
Heptachlor	21	0.0	17	81	35-130
Aldrin	21	0.0	17	81	34-132
Dieldrin	43	0.0	35	81	31-134
Endrin	43	0.0	35	81	42-139
4,4'-DDT	43	0.0	31	72	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	21	17	81	0	50	46-127
Heptachlor	21	17	81	0	31	35-130
Aldrin	21	17	81	0	43	34-132
Dieldrin	43	36	84	4	38	31-134
Endrin	43	36	84	4	45	42-139
4,4'-DDT	43	33	77	7	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2 ID:0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKUP	65	68	68	68			0
02	EE025MS	71	71	76	76			0
03	EE025MSD	71	76	106	112			0
04	EE025	82	88	88	88			0
05	EE026	88	82	88	88			0
06	EE027	67	72	67	72			0
07	EE028	28*	35	32	34			1
08	EE029	44	47	49	50			0
09	EE02A	94	72	83	83			0
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

QC LIMITS
TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-1

Sample wt/vol: 15.0(g/mL) G Lab File ID: _____

% Moisture: 22 Decanted: (Y/N) N Date Received: 11/10/00

Extraction: (Type) SONC Date Extracted: 11/14/00

Concentrated Extract Volume: 2500(uL) Date Analyzed: 11/21/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKUP

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Lab Sample ID: WG6911-1 Lab File ID: _____

Matrix (soil/water) SOIL Extraction:(Type) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 11/14/00

Date Analyzed (1): 11/21/00 Date Analyzed (2): 11/21/00

Time Analyzed (1): 1909 Time Analyzed (2): 1909

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC83

GC Column (1): CLPEST ID: 0.53(mm) GC Column (2): CLPEST2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EE025MS	WG6911-2	11/21/00	11/21/00
02	EE025MSD	WG6911-3	11/21/00	11/21/00
03	EE025	EE025-1	11/21/00	11/21/00
04	EE026	EE025-2	11/21/00	11/21/00
05	EE027	EE025-3	11/21/00	11/21/00
06	EE028	EE025-4	11/21/00	11/21/00
07	EE029	EE025-5	11/21/00	11/21/00
08	EE02A	EE025-6	11/21/00	11/21/00
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST OLM04.2

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025MSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6911-3

Sample wt/vol: 15.0(g/mL) G Lab File ID: _____

% Moisture: 22 Decanted: (Y/N) N Date Received: 11/10/00

Extraction: (Type) SONC Date Extracted: 11/14/00

Concentrated Extract Volume: 2500(uL) Date Analyzed: 11/21/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	17	
76-44-8	Heptachlor	17	
309-00-2	Aldrin	17	
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	36	
72-55-9	4,4'-DDE	2.3	J
72-20-8	Endrin	36	
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	33	
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	2.8	J
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025MS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE02

Matrix: (soil/water) SOIL Lab Sample ID: WG6911-2

Sample wt/vol: 15.0(g/mL) G Lab File ID: _____

% Moisture: 22 Decanted: (Y/N) N Date Received: 11/10/00

Extraction: (Type) SONC Date Extracted: 11/14/00

Concentrated Extract Volume: 2500(uL) Date Analyzed: 11/21/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	17	
76-44-8	Heptachlor	17	
309-00-2	Aldrin	17	
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	35	
72-55-9	4,4'-DDE	2.4	JP
72-20-8	Endrin	35	
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	31	
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	2.7	J
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE027

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 24 Decanted: (Y/N) N Date Received: 11/10/00

Extraction: (Type) SONC Date Extracted: 11/14/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/21/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.3	U
72-55-9	4,4'-DDE	4.3	U
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	4.3	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	88	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	43	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE026

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE02.

Matrix: (soil/water) SOIL Lab Sample ID: EE025-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 21 Decanted: (Y/N) N Date Received: 11/10/00

Extraction: (Type) SONC Date Extracted: 11/14/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/21/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE029

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 26 Decanted: (Y/N) N Date Received: 11/10/00

Extraction: (Type) SONC Date Extracted: 11/14/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/21/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	0.93	JP
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.4	U
72-55-9	4,4'-DDE	4.4	U
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4'-DDD	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4'-DDT	4.4	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-93-4	Endrin aldehyde	1.7	J
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	90	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE028

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-4

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 39 Decanted: (Y/N) N Date Received: 11/10/00

Extraction: (Type) SONC Date Extracted: 11/14/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/21/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.8	U
319-85-7	beta-BHC	2.8	U
319-86-8	delta-BHC	2.8	U
58-89-9	gamma-BHC (Lindane)	2.8	U
76-44-8	Heptachlor	2.8	U
309-00-2	Aldrin	2.8	U
1024-57-3	Heptachlor epoxide	2.8	U
959-98-8	Endosulfan I	2.8	U
60-57-1	Dieldrin	5.4	U
72-55-9	4,4'-DDE	5.4	U
72-20-8	Endrin	5.4	U
33213-65-9	Endosulfan II	5.4	U
72-54-8	4,4'-DDD	5.4	U
1031-07-8	Endosulfan sulfate	5.4	U
50-29-3	4,4'-DDT	5.4	U
72-43-5	Methoxychlor	28	U
53494-70-5	Endrin ketone	5.4	U
7421-93-4	Endrin aldehyde	5.4	U
5103-71-9	alpha-Chlordane	2.8	U
5103-74-2	gamma-Chlordane	2.8	U
8001-35-2	Toxaphene	280	U
12674-11-2	Aroclor-1016	54	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	54	U
53469-21-9	Aroclor-1242	54	U
12672-29-6	Aroclor-1248	54	U
11097-69-1	Aroclor-1254	54	U
11096-82-5	Aroclor-1260	54	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKUP

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6911-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/14/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/21/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE02A

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-6

Sample wt/vol: 30.0(g/mL) G Lab File ID: _____

% Moisture: 26 Decanted: (Y/N) N Date Received: 11/10/00

Extraction: (Type) SONC Date Extracted: 11/14/00

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/21/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.4	U
72-55-9	4,4'-DDE	4.4	U
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4'-DDD	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4'-DDT	4.4	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-93-4	Endrin aldehyde	4.4	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	90	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	U

DATE: December 18, 2000

TO: IEPA
1021 North Grand Avenue East
Springfield, IL 62702

Attn: Bob Casper

SITE NAME: CLARK OIL

CASE NO	LAB	NO # OF SAMPLES	SDG	MATRIX
28678	COMPUCHEM	6	EE025	SOIL

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
CHICAGO, IL 60605

Sent By: Eva M. Dixon, ESAT

RECEIVED
DEC 20 2000
IEPA-BOL-FSRS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: _____

SUBJECT: Review of Data
Received for Review on **November 28, 2000**

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

User Copy

TO: Data User: **IEPA**

We have reviewed the data for the following case:

SITE NAME: **CLARK OIL (IL)**

CASE NUMBER: **28678** SDG NUMBER: **EE025**

Number and Type of Samples: **6 SOILS**

Sample Numbers: **EE025 - EE029, EE02A**

Laboratory: **COMPUCHEM** Hrs. for Review: _____

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

RECEIVED
DEC 20 2000
IEPA-BOL-FSRS

Case Number : 28678 SDG Number: EE025
Site Name: CLARK OIL Laboratory: COMPUCHEM

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Six (6) soil samples, numbered *EE025* through *E0029* and *E002A,* were collected on *November 9, 2000.* The lab received the samples on *November 10, 2000* in good condition. All samples were analyzed for the full list of organic analytes. All were analyzed according to CLP SOW *OLM04.2* 5/99.

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: December 15, 2000

Case Number : 28678
Site Name: CLARK OIL

SDG Number: EE025
Laboratory: COMPUCHEM

1. HOLDING TIME

No problems found for this qualification.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems found for this qualification.

3. CALIBRATION

The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Acetone, Methyl Acetate
EE025, EE025MS, EE025MSD, EE026, EE027, EE028, EE029, VBLKVL, VBLKVX

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Dichlorodifluoromethane
EE02AMS, EE02AMSD, VBLKXT, VBLKYT, VHBLKXT

Trichlorofluoromethane, Methyl Acetate, 2-Butanone, 4-Methyl-2-pentanone, 2-Hexanone
EE025, EE025MS, EE025MSD, EE026, EE027, EE028, EE029, VBLKVL, VBLKVX

Acetone
EE025, EE026, EE027, EE028, EE029, EE02AMS, EE02AMSD, VBLKVL, VBLKXT, VBLKYT, VHBLKXT

Carbon Disulfide
EE025, EE026, EE027, EE028, EE029, VBLKVL

1,2-Dichloroethane, 1,1,2,2-Tetrachloroethane
EE025MS, EE025MSD, VBLKVX

1,2-Dibromo-3-chloropropane
EE025MS, EE025MSD, EE02A, EE02AMS, EE02AMSD, VBLKVX, VBLKWA, VBLKXT, VBLKYT, VHBLKXT

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: December 15, 2000

Case Number : 28678 SDG Number: EE025
Site Name: CLARK OIL Laboratory: COMPUCHEM

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Hexachlorocyclopentadiene, 4-Nitrophenol, 4,6-Dinitro-2-methylphenol
EE02ADL

2,4-Dinitrophenol
EE028, EE029, EE02ADL, SBLKUU

4-Nitroaniline
EE025MS, EE025MSD, EE026, EE027, EE028, EE029, SBLKUO, SBLKUU

Pentachlorophenol, 3,3'-Dichlorobenzidine
EE025MS, EE025MSD, EE026, EE027, SBLKUO

Carbazole
EE025MS, EE025MSD, EE026, EE027, EE028, EE029, EE02ADL, SBLKUO, SBLKUU

4. BLANKS

The following volatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Hits are qualified "U" or "UJ" and non-detects are not flagged.

Acetone
EE028, EE02AMS, EE02AMSD

Methylene Chloride
EE026, EE027, EE028, EE029

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Acetone
EE026

Methylene Chloride
EE025, EE02AMS

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: December 15, 2000

Case Number : 28678 SDG Number: EE025
Site Name: CLARK OIL Laboratory: COMPUCHEM

The following semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

bis(2-Ethylhexyl)phthalate
EE025, EE02A, EE02ADL

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following semivolatile sample reported one base/neutral surrogate recovery below the lower limit of the criteria window, but greater than 10%. However, the data requires no qualification as data are not qualified with respect to surrogate recovery unless two or more surrogates, within the same fraction, are outside the criteria window.

EE025MS

The following pesticide samples have surrogate percent recoveries outside the lower limit of the criteria window, but greater than 10%. Hits are qualified "J" and non-detects are qualified "UJ".

EE028

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The following volatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. The presence of Benzene in the unspiked sample, EE02A, is qualified "J" and non-detects are qualified "R".

EE02AMS, EE02AMSD
Benzene

The relative percent difference (RPD) between the following semivolatile matrix spike and matrix spike duplicate recoveries is outside criteria.

EE025MS, EE025MSD
Phenol, 2-Chlorophenol, N-Nitroso-di-n-propylamine, 4-Chloro-3-methylphenol, Acenaphthene, 4-Nitrophenol, 2,4-Dinitrotoluene, Pentachlorophenol, Pyrene

The following semivolatile matrix spike/matrix spike duplicate, samples have percent recovery outside criteria.

Case Number : 28678 SDG Number: EE025
Site Name: CLARK OIL Laboratory: COMPUCHEM

EE025MS
N-Nitroso-di-n-propylamine

The presence of Phenol, 2-Chlorophenol, N-Nitroso-di-n-propylamine, 4-Chloro-3-methylphenol, Acenaphthene, 4-Nitrophenol, 2,4-Dinitrotoluene, Pentachlorophenol, Pyrene in the unspiked sample, EE025, is qualified "J" and non-detects are flagged "UJ.

7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as either field blanks or field duplicates. Results are not qualified based upon the results of the field blank or field duplicates.

8. INTERNAL STANDARDS

No problems found for this qualification.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

EE025, EE025MS
Trichlorofluoromethane, 2-Butanone

EE025MSD
Trichlorofluoromethane, Acetone, Methylene Chloride, Tetrachloroethene

EE026
Toluene, Xylenes (total)

EE027
Carbon Disulfide, Toluene

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: December 15, 2000

Case Number : 28678
Site Name: CLARK OIL

SDG Number: EE025
Laboratory: COMPUCHEM

EE029
Trichlorofluoromethane, Carbon Disulfide, Toluene, Ethylbenzene, Xylenes (total)

EE02A
Methylene Chloride

EE02AMS
1,1-Dichloroethene, Benzene, Trichloroethene, Toluene, Chlorobenzene, Isopropylbenzene

EE02AMSD
1,1-Dichloroethene, Benzene, Trichloroethene, Toluene, Chlorobenzene

VBLKVL
Acetone, Methylene Chloride

VBLKVX
1,2,4-Trichlorobenzene

VBLKXT
1,1,2-Trichloro-1,2,2-trifluoroethane, Methylene Chloride, Toluene

VBLKYT
1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

EE025MS
Atrazine, Pentachlorophenol

EE028, SBLKUO, SBLKVV
bis(2-Ethylhexyl)phthalate

EE029
2-Methylnaphthalene, Phenanthrene

EE02A
1,1'-Biphenyl, Acenaphthene, Dibenzofuran, Fluorene, Anthracene, Pyrene

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: December 15, 2000

Case Number : 28678 SDG Number: EE025
Site Name: CLARK OIL Laboratory: COMPUCHEM

EE02ADL
Naphthalene, 1,1'-Biphenyl, Acenaphthene, Dibenzofuran, Fluorene, Pyrene

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

EE025MS, EE025MSD
4,4'-DDE, Endrin ketone

EE029
beta-BHC, Endrin aldehyde

The following pesticide samples have analytes for which the percent difference between column results exceeds primary criteria. Hits are qualified "J".

EE025MS
4,4'-DDE

EE029
beta-BHC

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

Samples arrived at the laboratory with an elevated temperature of 7 °C.

2-Methylnaphthalene exceeded the instrument's calibration range in semivolatile sample EE02A. For any analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration.

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: December 15, 2000

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)
H	Sample result is estimated and biased high.
L	Sample result is estimated and biased low.

TICS

Volatile Analysis Data - VELKWA
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE025

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	6.36	10240.000	J

FILE NAME: EE025.SDG DATE: 11/28/2000 TIME: 14:39 CADRE99 PAGE: 1

Volatile Analysis Data - EE02A
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE025

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	BRANCHED ALKANE	8.09	345500.000	J
	BRANCHED ALKANE	8.40	154300.000	J
	STRAIGHT-CHAIN ALKANE	8.71	216000.000	J
	BRANCHED ALKANE	9.26	317000.000	J
	CYCLIC ALKANE	9.39	182600.000	J
	BRANCHED ALKANE	9.90	295100.000	J
	BRANCHED ALKANE	10.05	397300.000	J
	STRAIGHT-CHAIN ALKANE	10.40	160300.000	J
	BRANCHED ALKANE	10.84	584[illegible].000	J
	UNKNOWN HYDROCARBON	10.89	137900.000	J
	UNKNOWN	11.27	442300.000	J
	BRANCHED ALKANE	11.38	157700.000	J
	STRAIGHT-CHAIN ALKANE	11.60	[illegible]	J
	CYCLIC ALKANE	11.71	8871[illegible].000	J
	BRANCHED ALKANE	12.30	238800.000	J
	BRANCHED ALKANE	12.38	137800.000	J
	BRANCHED ALKANE	13.08	239700.000	J
	UNKNOWN	13.14	133700.000	J
	UNKNOWN	13.34	163600.000	J
526-73-8	BENZENE, 1,2,3-TRIMETHYL-	13.41	309400.000	NJ
	BRANCHED ALKANE	13.51	77580.000	J
98-82-8	BENZENE, (1-METHYLETHYL)-	13.56	119400.000	NJ
95-36-3	1,2,4-TRIMETHYLBENZENE	13.65	277900.000	NJ
	UNKNOWN	13.74	212900.000	J
	BRANCHED ALKANE	13.81	94670.000	J
622-96-8	BENZENE, 1-ETHYL-4-METHYL-	13.91	89380.000	NJ
1758-88-9	BENZENE, 2-ETHYL-1,4-DIMETHYL-	14.00	299900.000	NJ
	SUBSTITUTED BENZENE	14.06	181200.000	J
	UNKNOWN	14.15	108100.000	J
535-77-3	BENZENE, 1-METHYL-3-(1-METHYLETHYL)-	14.18	158200.000	NJ
527-84-4	BENZENE, 1-METHYL-2-(1-METHYLETHYL)-	14.24	166800.000	NJ
	UNKNOWN	14.32	135000.000	J
27133-93-3	2,3-DIHYDRO-1-METHYLINDENE	14.37	133400.000	NJ
	UNKNOWN	14.44	97060.000	J
105-05-5	BENZENE, 1,4-DIETHYL-	14.48	134000.000	NJ
527-84-4	BENZENE, 1-METHYL-2-(1-METHYLETHYL)-	14.52	219700.000	NJ
	STRAIGHT-CHAIN ALKANE	14.59	93470.000	J
	UNKNOWN	14.68	102900.000	J
	UNKNOWN	14.71	76990.000	J
874-35-1	1H-INDENE, 2,3-DIHYDRO-5-METHYL-	14.74	145600.000	NJ
933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHYL-	14.81	158900.000	NJ
27133-93-3	2,3-DIHYDRO-1-METHYLINDENE	14.86	121200.000	NJ
	UNKNOWN ALCOHOL	14.98	109500.000	J
	UNKNOWN	15.00	139000.000	J
6682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-DIMETHYL-	15.06	1[illegible]	NJ
4912-92-9	1H-INDENE, 2,3-DIHYDRO-1,1-DIMETHYL-	15.14	127400.000	NJ
	STRAIGHT-CHAIN ALKANE	15.21	121600.000	J
	UNKNOWN	15.41	78320.000	J
6682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-DIMETHYL-	15.50	81640.000	NJ

FILE NAME: EE025.SDG DATE: 11/28/2000 TIME: 14:39 CADRE99 PAGE: 2

Volatile Analysis Data - VBLKXT
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE025

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	7.89	1042.000	J
	UNKNOWN	8.95	798.700	J
	LABORATORY ARTIFACT	14.10	731.400	J
	STRAIGHT-CHAIN ALKANE	15.89	675.400	J

FILE NAME: EE025.SDG DATE: 11/28/2000 TIME: 14:39 CADRE99 PAGE: 3

Volatile Analysis Data - VBLKYL
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE025

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
541-05-9	CYCLOTRISILOXANE, HEXAMETHYL-	13.39	7.941	NJ
556-67-2	CYCLOTETRASILOXANE, OCTAMETHYL-	15.97	153.600	NJ
	LABORATORY ARTIFACT	17.67	193.100	J
	LABORATORY ARTIFACT	19.19	19.700	J

FILE NAME: EE025.SDG DATE: 11/28/2000 TIME: 14:39 CADRE99 PAGE: 4

Volatile Analysis Data - EE025
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE025

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q

FILE NAME: EE025.SDG DATE: 11/28/2000 TIME: 14:39 CADRE99 PAGE: 5

Volatile Analysis Data - EE026
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE025

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	8.28	38.150	J
	UNKNOWN	8.74	27.980	J
	UNKNOWN	9.75	24.250	J

FILE NAME: EE025.SDG DATE: 11/28/2000 TIME: 14:39 CADRE99 PAGE: 6

Volatile Analysis Data - EE027
Tentatively Identified Compounds

CASE NO: 28678
SDG NO: EE025

LABORATORY: COMPUCHEM

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q

FILE NAME: EE025.SDG DATE: 11/28/2000 TIME: 14:39 CADRE99 PAGE: 7

Volatile Analysis Data - EE029
Tentatively Identified Compounds

CASE NO: 28678 LABORATORY: COMPUCHEM
SDG NO: EE025

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	CYCLIC ALKANE	14.73	212.900	J
	CYCLIC ALKANE	15.12	275.400	J
	BRANCHED ALKANE	15.35	775.300	J
	BRANCHED ALKANE	15.48	844.300	J
	UNKNOWN	15.64	442.800	J
	BRANCHED ALKANE	15.71	620.200	J
	BRANCHED ALKANE	15.85	408.900	J
	UNKNOWN ALKENE	15.91	655.900	J
	UNKNOWN ALKENE	16.15	587.400	J
	UNKNOWN	16.21	582.600	J
	BRANCHED ALKANE	16.47	1126.000	J
	UNKNOWN	16.55	553.400	J
	BRANCHED ALKANE	16.68	798.100	J
	UNKNOWN	16.76	818.400	J
	BRANCHED ALKANE	16.86	1107.000	J
	CYCLIC ALKANE	17.02	967.000	J
493-02-7	NAPHTHALENE, DECAHYDRO-, TRANS-	17.20	919.000	NJ
	UNKNOWN	17.31	941.800	J
	UNKNOWN ALKENE	17.37	915.100	J
	UNKNOWN	17.46	1566.000	J
	STRAIGHT-CHAIN ALKANE	17.60	1223.000	J
	UNKNOWN	17.72	881.300	J
	UNKNOWN	17.78	633.500	J
	UNKNOWN	17.84	1938.000	J
	UNKNOWN	17.97	1595.000	J
	UNKNOWN	18.08	861.700	J
	UNKNOWN	18.19	804.400	J
	UNKNOWN	18.30	1638.000	J
	BRANCHED ALKANE	18.38	1515.000	J
	UNKNOWN	18.44	1772.000	J
	SUBSTITUTED BENZENE	18.61	1571.000	J
	CYCLIC ALKANE	18.76	2180.000	J
	BRANCHED ALKANE	18.89	1890.000	J
	UNKNOWN	18.99	1302.000	J
	UNKNOWN	19.09	1158.000	J
	UNKNOWN	19.25	3305.000	J
	SUBSTITUTED BENZENE	19.45	1037.000	J
	UNKNOWN PAH	19.52	506.100	J
	CYCLIC ALKANE	19.65	1851.000	J
	BRANCHED ALKANE	19.80	978.100	J
	UNKNOWN	19.88	623.900	J
	UNKNOWN	20.04	1123.000	J
	UNKNOWN	20.12	663.900	J
10374-74-0	7-TETRADECENE	20.27	674.400	NJ
	UNKNOWN	20.59	513.500	J
	UNKNOWN	20.66	1614.000	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE02ADL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-6

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE025-6DA66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 26 decanted: (Y/N) N Date Extracted: 11/18/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/21/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	890	U
108-95-2	Phenol	890	U
111-44-4	bis(2-Chloroethyl)ether	890	U
95-57-8	2-Chlorophenol	890	U
95-48-7	2-Methylphenol	890	U
108-60-1	2,2'-oxybis(1-Chloropropane)	890	U
98-86-2	Acetophenone	890	U
106-44-5	4-Methylphenol	890	U
621-64-7	N-Nitroso-di-n-propylamine	890	U
67-72-1	Hexachloroethane	890	U
98-95-3	Nitrobenzene	890	U
78-59-1	Isophorone	890	U
88-75-5	2-Nitrophenol	890	U
105-67-9	2,4-Dimethylphenol	890	U
111-91-1	bis(2-Chloroethoxy)methane	890	U
120-83-2	2,4-Dichlorophenol	890	U
91-20-3	Naphthalene	810	DJ
106-47-8	4-Chloroaniline	890	U
87-68-3	Hexachlorobutadiene	890	U
105-60-2	Caprolactam	890	U
59-50-7	4-Chloro-3-methylphenol	890	U
91-57-6	2-Methylnaphthalene	6400	D
77-47-4	Hexachlorocyclopentadiene	890	U
88-06-2	2,4,6-Trichlorophenol	890	U
95-95-4	2,4,5-Trichlorophenol	2200	U
92-52-4	1,1'-Biphenyl	120	DJ
91-58-7	2-Chloronaphthalene	890	U
88-74-4	2-Nitroaniline	2200	U
131-11-3	Dimethylphthalate	890	U
606-20-2	2,6-Dinitrotoluene	890	U
208-96-8	Acenaphthylene	890	U
99-09-2	3-Nitroaniline	2200	U
83-32-9	Acenaphthene	210	DJ

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE02ADL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE0

Matrix: (soil/water) SOIL Lab Sample ID: EE025-6

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE025-6DA66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 26 decanted: (Y/N) N Date Extracted: 11/18/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/21/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2200	U
100-02-7	4-Nitrophenol	2200	U
132-64-9	Dibenzofuran	170	DJ
121-14-2	2,4-Dinitrotoluene	890	U
84-66-2	Diethylphthalate	890	U
86-73-7	Fluorene	350	DJ
7005-72-3	4-Chlorophenyl-phenylether	890	U
100-01-6	4-Nitroaniline	2200	U
534-52-1	4,6-Dinitro-2-methylphenol	2200	U
86-30-6	N-nitrosodiphenylamine (1)	890	U
101-55-3	4-Bromophenyl-phenylether	890	U
118-74-1	Hexachlorobenzene	890	U
1912-24-9	Atrazine	890	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	Phenanthrene	970	D
120-12-7	Anthracene	890	U
86-74-8	Carbazole	890	U
84-74-2	Di-n-butylphthalate	890	U
206-44-0	Fluoranthene	890	U
129-00-0	Pyrene	95	DJ
85-68-7	Butylbenzylphthalate	890	U
91-94-1	3,3'-Dichlorobenzidine	890	U
56-55-3	Benzo(a)anthracene	890	U
218-01-9	Chrysene	890	U
117-81-7	bis(2-Ethylhexyl)phthalate	890 ~~820~~	DJB U
117-84-0	Di-n-octylphthalate	890	U
205-99-2	Benzo(b)fluoranthene	890	U
207-08-9	Benzo(k)fluoranthene	890	U
50-32-8	Benzo(a)pyrene	890	U
193-39-5	Indeno(1,2,3-cd)pyrene	890	U
53-70-3	Dibenzo(a,h)anthracene	890	U
191-24-2	Benzo(g,h,i)perylene	890	U

(1) - Cannot be separated from Diphenylamine

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE02A

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-6

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE025-6A66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 26 decanted: (Y/N) N Date Extracted: 11/18/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/20/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	140	J
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
86-73-7	Fluorene	270	J
7005-72-3	4-Chlorophenyl-phenylether	450	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
1912-24-9	Atrazine	450	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	770	
120-12-7	Anthracene	66	J
86-74-8	Carbazole	450	U
84-74-2	Di-n-butylphthalate	450	U
206-44-0	Fluoranthene	450	U
129-00-0	Pyrene	74	J
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	450	U
218-01-9	Chrysene	450	U
117-81-7	bis(2-Ethylhexyl)phthalate	450 ~~240~~	JB U
117-84-0	Di-n-octylphthalate	450	U
205-99-2	Benzo(b)fluoranthene	450	U
207-08-9	Benzo(k)fluoranthene	450	U
50-32-8	Benzo(a)pyrene	450	U
193-39-5	Indeno(1,2,3-cd)pyrene	450	U
53-70-3	Dibenzo(a,h)anthracene	450	U
191-24-2	Benzo(g,h,i)perylene	450	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE02A

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-6

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE025-6A66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 26 Decanted: (Y/N) N Date Extracted:11/18/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/20/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

Number TICs found: 27

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	SUBSTITUTED BENZENE	11.72	4400	J
2.	SUBSTITUTED BENZENE	12.51	540	J
3. 24949-42-6	6-TRIDECENE, 7-METHYL-	13.14	520	NJ
4.	UNKNOWN	13.36	510	J
5. 264-09-5	BENZOCYCLOHEPTATRIENE	13.63	1100	NJ
6.	UNKNOWN	13.83	970	J
7.	UNKNOWN	14.40	520	J
8. 1127-76-0	NAPHTHALENE, 1-ETHYL-	14.51	1200	NJ
9. 575-43-9	NAPHTHALENE, 1,6-DIMETHYL-	14.64	1100	NJ
10. 581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	14.79	1300	NJ
11. 575-43-9	NAPHTHALENE, 1,6-DIMETHYL-	14.84	910	NJ
12.	UNKNOWN	14.89	900	J
13.	DIMETHYLNAPHTHALENE	15.00	1400	J
14.	ETHYLNAPHTHALENE	15.18	620	J
15.	UNKNOWN	15.52	890	J
16. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	15.64	720	NJ
17.	TRIMETHYLNAPHTHALENE	15.76	500	J
18.	UNKNOWN	15.82	730	J
19. 829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL	15.86	560	NJ
20. 2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL	15.91	1000	NJ
21.	UNKNOWN	15.99	690	J
22. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	16.09	1100	NJ
23. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	16.23	950	NJ
24.	UNKNOWN	16.53	790	J
25.	UNKNOWN	16.63	520	J
26. 529-05-5	AZULENE, 7-ETHYL-1,4-DIMETHY	17.19	1200	NJ
27. 132-65-0	DIBENZOTHIOPHENE	18.02	1100	NJ
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29.				
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1G

EPA SAMPLE NO.

EE029

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE025-5A66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 26 Decanted: (Y/N) N Date Extracted:11/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

Number TICs found: 31

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	28.86	680	J
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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE02A

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE02

Matrix: (soil/water) SOIL Lab Sample ID: EE025-6

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE025-6A66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 26 decanted: (Y/N) N Date Extracted: 11/18/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/20/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	450	U
108-95-2	Phenol	450	U
111-44-4	bis(2-Chloroethyl)ether	450	U
95-57-8	2-Chlorophenol	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2'-oxybis(1-Chloropropane)	450	U
98-86-2	Acetophenone	450	U
106-44-5	4-Methylphenol	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
111-91-1	bis(2-Chloroethoxy)methane	450	U
120-83-2	2,4-Dichlorophenol	450	U
91-20-3	Naphthalene	660	
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
105-60-2	Caprolactam	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	5100	E
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	86	J
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	450	U
606-20-2	2,6-Dinitrotoluene	450	U
208-96-8	Acenaphthylene	450	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	120	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE029

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE025-5A66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 26 decanted: (Y/N) N Date Extracted: 11/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	450	U
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
86-73-7	Fluorene	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
1912-24-9	Atrazine	450	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	140	J
120-12-7	Anthracene	450	U
86-74-8	Carbazole	450	U
84-74-2	Di-n-butylphthalate	450	U
206-44-0	Fluoranthene	450	U
129-00-0	Pyrene	450	U
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	450	U
218-01-9	Chrysene	450	U
117-81-7	bis(2-Ethylhexyl)phthalate	450	U
117-84-0	Di-n-octylphthalate	450	U
205-99-2	Benzo(b)fluoranthene	450	U
207-08-9	Benzo(k)fluoranthene	450	U
50-32-8	Benzo(a)pyrene	450	U
193-39-5	Indeno(1,2,3-cd)pyrene	450	U
53-70-3	Dibenzo(a,h)anthracene	450	U
191-24-2	Benzo(g,h,i)perylene	450	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

EE029

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE02

Matrix: (soil/water) SOIL Lab Sample ID: EE025-5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE025-5A66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 26 Decanted: (Y/N) N Date Extracted:11/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

ACA 12-14-00

Number TICs found: 31

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	7.78	1000	JB U
2. 90-12-0	NAPHTHALENE, 1-METHYL-	13.65	460	NJ
3.	ETHYLNAPHTHALENE	14.53	320	J
4. 575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	14.65	620	NJ
5. 581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	14.82	920	NJ
6.	UNKNOWN	14.92	190	J
7. 581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	15.02	630	NJ
8. 571-58-4	NAPHTHALENE, 1,4-DIMETHYL-	15.21	210	NJ
9. 2027-17-0	NAPHTHALENE, 2-(1-METHYLETHY	15.67	260	NJ
10. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	15.89	410	NJ
11. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	15.94	320	NJ
12. 2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL	16.12	370	NJ
13. 829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL	16.26	380	NJ
14.	UNKNOWN	17.53	180	J
15.	UNKNOWN	17.61	320	J
16.	UNKNOWN	17.83	290	J
17.	UNKNOWN	18.05	260	J
18.	UNKNOWN	18.39	210	J
19. 7372-88-5	DIBENZOTHIOPHENE, 4-METHYL-	18.88	210	NJ
20. 7372-88-5	DIBENZOTHIOPHENE, 4-METHYL-	19.05	190	NJ
21.	METHYLANTHRACENE	19.20	210	J
22. 610-48-0	ANTHRACENE, 1-METHYL-	19.26	220	NJ
23.	UNKNOWN	19.48	260	J
24.	UNKNOWN	19.78	180	J
25. 1207-15-4	2,8-DIMETHYLDIBENZO(B,D)THIO	19.85	230	NJ
26. 16587-34-1	NAPHTHO[2,3-B]THIOPHENE, 4,9	20.05	220	NJ
27.	UNKNOWN	20.15	290	J
28. 3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	20.27	270	NJ
29.	UNKNOWN	20.51	170	J
30.	UNKNOWN	20.88	210	J

FORM I SV-TIC OLM04.2

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE028

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-4

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE025-4A66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 39 Decanted: (Y/N) N Date Extracted: 11/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 4

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	7.79	1400	JB
2.	UNKNOWN (BC)	9.28	260	JB
3.	UNKNOWN (BC)	24.86	170	JB
4.	UNKNOWN	28.85	110	J
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FORM I SV-TIC OLM04.2

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE029

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE025-5A66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 26 decanted: (Y/N) N Date Extracted: 11/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	450	U
108-95-2	Phenol	450	U
111-44-4	bis(2-Chloroethyl)ether	450	U
95-57-8	2-Chlorophenol	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2'-oxybis(1-Chloropropane)	450	U
98-86-2	Acetophenone	450	U
106-44-5	4-Methylphenol	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
111-91-1	bis(2-Chloroethoxy)methane	450	U
120-83-2	2,4-Dichlorophenol	450	U
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
105-60-2	Caprolactam	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	220	J
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	450	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	450	U
606-20-2	2,6-Dinitrotoluene	450	U
208-96-8	Acenaphthylene	450	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	450	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE028

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-4

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE025-4A66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 39 decanted: (Y/N) N Date Extracted: 11/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/16/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	540	U
108-95-2	Phenol	540	U
111-44-4	bis(2-Chloroethyl)ether	540	U
95-57-8	2-Chlorophenol	540	U
95-48-7	2-Methylphenol	540	U
108-60-1	2,2'-oxybis(1-Chloropropane)	540	U
98-86-2	Acetophenone	540	U
106-44-5	4-Methylphenol	540	U
621-64-7	N-Nitroso-di-n-propylamine	540	U
67-72-1	Hexachloroethane	540	U
98-95-3	Nitrobenzene	540	U
78-59-1	Isophorone	540	U
88-75-5	2-Nitrophenol	540	U
105-67-9	2,4-Dimethylphenol	540	U
111-91-1	bis(2-Chloroethoxy)methane	540	U
120-83-2	2,4-Dichlorophenol	540	U
91-20-3	Naphthalene	540	U
106-47-8	4-Chloroaniline	540	U
87-68-3	Hexachlorobutadiene	540	U
105-60-2	Caprolactam	540	U
59-50-7	4-Chloro-3-methylphenol	540	U
91-57-6	2-Methylnaphthalene	540	U
77-47-4	Hexachlorocyclopentadiene	540	U
88-06-2	2,4,6-Trichlorophenol	540	U
95-95-4	2,4,5-Trichlorophenol	1400	U
92-52-4	1,1'-Biphenyl	540	U
91-58-7	2-Chloronaphthalene	540	U
88-74-4	2-Nitroaniline	1400	U
131-11-3	Dimethylphthalate	540	U
606-20-2	2,6-Dinitrotoluene	540	U
208-96-8	Acenaphthylene	540	U
99-09-2	3-Nitroaniline	1400	U
83-32-9	Acenaphthene	540	U

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE027

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-3

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE025-3A66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 24 Decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/17/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 4

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	9.30	170	JB U
2.	UNKNOWN AMIDE	24.62	210	J
3.	UNKNOWN	24.88	92	J
4.	UNKNOWN	28.87	240	J
5.				
6.				
7.				
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FORM I SV-TIC OLM04.2

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE026

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EE025-2A66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 21 Decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/17/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Extraction: (Type) SONC

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	9.32	100	JB U
2.				
3.				
4.				
5.				
6.				
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30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE027

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE025-3A66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/17/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	430	U
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	430	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE026

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE025-2A66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/17/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	420	U
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
98-86-2	Acetophenone	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	420	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE026

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: EE025-2A66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/17/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025MSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6910-3

Sample wt/vol: 15.0(g/mL) G Lab File ID: WG6910-3A66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 22 decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 250(uL) Date Analyzed: 11/17/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	420	U
108-95-2	Phenol	2400	
111-44-4	bis(2-Chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	2200	
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
98-86-2	Acetophenone	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	1500	
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	2400	
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	1400	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025MSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE02_

Matrix: (soil/water) SOIL Lab Sample ID: WG6910-3

Sample wt/vol: 15.0(g/mL) G Lab File ID: WG6910-3A66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 22 decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 250(uL) Date Analyzed: 11/17/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	2500	
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	1400	
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	1500	
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	1400	
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025MS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6910-2

Sample wt/vol: 15.0(g/mL) G Lab File ID: WG6910-2A66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 22 decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 250(uL) Date Analyzed: 11/17/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	420	U
108-95-2	Phenol	1300	
111-44-4	bis(2-Chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	1200	
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
98-86-2	Acetophenone	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	780	
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	1300	
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	720	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025MS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE02

Matrix: (soil/water) SOIL Lab Sample ID: WG6910-2

Sample wt/vol: 15.0(g/mL) G Lab File ID: WG6910-2A66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 22 decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 250(uL) Date Analyzed: 11/17/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1200	
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	720	
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	150	J
87-86-5	Pentachlorophenol	720	J
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	760	
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

(1) - Cannot be separated from Diphenylamine

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-1

Sample wt/vol: 15.0(g/mL) G Lab File ID: EE025-1JA66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 22 decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 250(uL) Date Analyzed: 11/20/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420 ~~100~~	JB U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE025

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-1

Sample wt/vol: 15.0 (g/mL) G Lab File ID: EE025-1JA66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 22 Decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 250(uL) Date Analyzed: 11/20/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Extraction: (Type) SONC

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

ACH 12-14-00

Number TICs found: 30

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.14	120	J
2.	UNKNOWN (BC)	9.22	240	JB U
3.	UNKNOWN	17.12	96	J
4. 57-10-3	HEXADECANOIC ACID	19.27	100	NJB U
5.	UNKNOWN	20.01	110	J
6.	UNKNOWN AMIDE	22.11	120	J
7. 103-23-1	HEXANEDIOIC ACID, BIS(2-ETHY	22.26	230	NJ
8.	UNKNOWN	22.61	110	J
9.	UNKNOWN PHTHALATE	23.81	150	J
10.	UNKNOWN PHTHALATE	23.91	170	J
11.	UNKNOWN PHTHALATE	24.01	300	J
12.	UNKNOWN PHTHALATE	24.06	310	J
13.	UNKNOWN PHTHALATE	24.15	680	J
14.	UNKNOWN PHTHALATE	24.27	1900	J
15.	UNKNOWN PHTHALATE	24.37	420	J
16. 28553-12-0	1,2-BENZENEDICARBOXYLIC ACID	24.47	2100	NJ
17.	UNKNOWN	24.54	700	J
18.	UNKNOWN PHTHALATE	24.62	2200	J
19.	UNKNOWN PHTHALATE	24.71	1100	J
20.	UNKNOWN PHTHALATE.	24.79	1700	J
21.	UNKNOWN PHTHALATE	24.87	1300	J
22. 28553-12-0	1,2-BENZENEDICARBOXYLIC ACID	24.96	1400	NJ
23. 28553-12-0	1,2-BENZENEDICARBOXYLIC ACID	25.03	1000	NJ
24.	UNKNOWN PHTHALATE	25.11	800	J
25.	UNKNOWN PHTHALATE	25.20	590	J
26.	UNKNOWN PHTHALATE	25.28	490	J
27.	UNKNOWN PHTHALATE	25.45	230	J
28.	UNKNOWN	28.68	720	J
29.	UNKNOWN	28.96	190	J
30.	UNKNOWN	31.06	89	J

FORM I SV-TIC OLM04.2

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKVV

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Lab File ID: WG7032-1A66 Lab Sample ID: WG7032-1

Instrument ID: 5972HP66 Date Extracted: 11/18/00

Matrix: (soil/water) SOIL Date Analyzed: 11/20/00

Level:(low/med) LOW Time Analyzed: 1408

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EE02A	EE025-6	EE025-6A66	11/20/00
02	EE02ADL	EE025-6	EE025-6DA66	11/21/00
03				
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COMMENTS:

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE02

Matrix: (soil/water) SOIL Lab Sample ID: EE025-1

Sample wt/vol: 15.0(g/mL) G Lab File ID: EE025-1JA66

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: 22 decanted: (Y/N) N Date Extracted: 11/14/00

Concentrated Extract Volume: 250(uL) Date Analyzed: 11/20/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	420	U
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
98-86-2	Acetophenone	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	420	U

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKUO

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Lab File ID: WG6910-1A66 Lab Sample ID: WG6910-1

Instrument ID: 5972HP66 Date Extracted: 11/14/00

Matrix: (soil/water) SOIL Date Analyzed: 11/17/00

Level:(low/med) LOW Time Analyzed: 1202

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EE025MS	WG6910-2	WG6910-2A66	11/17/00
02	EE025MSD	WG6910-3	WG6910-3A66	11/17/00
03	EE026	EE025-2	EE025-2A66	11/17/00
04	EE027	EE025-3	EE025-3A66	11/17/00
05	EE025	EE025-1	EE025-1JA66	11/20/00
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COMMENTS:

FORM IV SV OLM04.2

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKUU

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Lab File ID: WG6926-1A66 Lab Sample ID: WG6926-1

Instrument ID: 5972HP66 Date Extracted: 11/15/00

Matrix: (soil/water) SOIL Date Analyzed: 11/16/00

Level:(low/med) LOW Time Analyzed: 1250

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EE028	EE025-4	EE025-4A66	11/16/00
02	EE029	EE025-5	EE025-5A66	11/16/00
03				
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COMMENTS:

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	SBLKUU	40	43	39	39	39	37	38	38	0
02	EE028	53	54	53	53	54	54	53	42	0
03	EE029	42	44	43	42	43	44	43	36	0
04	SBLKUO	63	64	63	56	57	47	58	61	0
05	EE025MS	28	26*	28	27	26	23	27	20	1
06	EE025MSD	53	51	52	51	50	46	51	42	0
07	EE026	50	48	48	46	47	41	47	43	0
08	EE027	53	51	53	48	51	52	52	40	0
09	SBLKVV	60	58	60	58	62	56	62	61	0
10	EE02A	48	44	45	43	47	53	47	44	0
11	EE025	43	45	49	42	45	33	43	34	0
12	EE02ADL	62	59	56	57	56	57	58	56	0
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix Spike - EPA Sample No.: EE025 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3205	0.00	1275	40	26- 90
2-Chlorophenol	3205	0.00	1201	37	25-102
N-Nitroso-di-n-prop.(1)	2137	0.00	783.8	37*	41-126
4-Chloro-3-methylphenol	3205	0.00	1284	40	26-103
Acenaphthene	2137	0.00	720.2	34	31-137
4-Nitrophenol	3205	0.00	1187	37	11-114
2,4-Dinitrotoluene	2137	0.00	718.5	34	28- 89
Pentachlorophenol	3205	0.00	723.8	23	17-109
Pyrene	2137	0.00	764.4	36	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS RE
Phenol	3205	2364	74	60*	35	26- 90
2-Chlorophenol	3205	2211	69	60*	50	25-102
N-Nitroso-di-n-prop.(1)	2137	1467	69	60*	38	41-126
4-Chloro-3-methylphenol	3205	2360	74	60*	33	26-103
Acenaphthene	2137	1363	64	61*	19	31-137
4-Nitrophenol	3205	2479	77	70*	50	11-114
2,4-Dinitrotoluene	2137	1385	65	63*	47	28- 89
Pentachlorophenol	3205	1471	46	67*	47	17-109
Pyrene	2137	1397	65	57*	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 9 out of 9 outside limits
Spike Recovery: 1 out of 18 outside limits

COMMENTS:

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKYT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) WATER Lab Sample ID: WG6994-1

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG6994-1A71

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	3	J
120-82-1	1,2,4-Trichlorobenzene	1	J

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKYT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) WATER Lab Sample ID: WG6994-1

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG6994-1A71

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKXT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6955-1

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6955-1A71

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

Number TICs found: 3

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.89	1000	J
2.	UNKNOWN	8.95	800	J
3.	LABORATORY ARTIFACT	14.10	730	J
4.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKYT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) WATER Lab Sample ID: WG6994-1

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG6994-1A71

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKXT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6955-1

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6955-1A71

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1300	U
74-87-3	Chloromethane	1300	U
75-01-4	Vinyl Chloride	1300	U
74-83-9	Bromomethane	1300	U
75-00-3	Chloroethane	1300	U
75-69-4	Trichlorofluoromethane	1300	U
75-35-4	1,1-Dichloroethene	1300	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	160	J
67-64-1	Acetone	1200	J
75-15-0	Carbon Disulfide	1300	U
79-20-9	Methyl Acetate	1300	U
75-09-2	Methylene Chloride	1100	J
156-60-5	trans-1,2-Dichloroethene	1300	U
1634-04-4	Methyl tert-Butyl Ether	1300	U
75-34-3	1,1-Dichloroethane	1300	U
156-59-2	cis-1,2-Dichloroethene	1300	U
78-93-3	2-Butanone	1300	U
67-66-3	Chloroform	1300	U
71-55-6	1,1,1-Trichloroethane	1300	U
110-82-7	Cyclohexane	1300	U
56-23-5	Carbon Tetrachloride	1300	U
71-43-2	Benzene	1300	U
107-06-2	1,2-Dichloroethane	1300	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKXT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6955-1

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6955-1A71

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	1300	U
108-87-2	Methylcyclohexane	1300	U
78-87-5	1,2-Dichloropropane	1300	U
75-27-4	Bromodichloromethane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
108-10-1	4-Methyl-2-Pentanone	1300	U
108-88-3	Toluene	130	J
10061-02-6	trans-1,3-Dichloropropene	1300	U
79-00-5	1,1,2-Trichloroethane	1300	U
127-18-4	Tetrachloroethene	1300	U
591-78-6	2-Hexanone	1300	U
124-48-1	Dibromochloromethane	1300	U
106-93-4	1,2-Dibromoethane	1300	U
108-90-7	Chlorobenzene	1300	U
100-41-4	Ethylbenzene	1300	U
1330-20-7	Xylene (Total)	1300	U
100-42-5	Styrene	1300	U
75-25-2	Bromoform	1300	U
98-82-8	Isopropylbenzene	1300	U
79-34-5	1,1,2,2-Tetrachloroethane	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	1300	U
95-50-1	1,2-Dichlorobenzene	1300	U
96-12-8	1,2-Dibromo-3-Chloropropane	1300	U
120-82-1	1,2,4-Trichlorobenzene	1300	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKWA

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6865-1

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6865-1RA71ME

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/20/00

GC Column: J&W DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.36	10000	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE02A

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-6

Sample wt/vol: 4.0 (g/mL) G Lab File ID: EE025-6DA71

Level: (low/med) MED Date Received: 11/10/00

% Moisture: not dec. 26 Date Analyzed: 11/20/00

GC Column: J&W DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 10(uL)

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN HYDROCARBON	10.89	140000	J
2.	UNKNOWN	11.27	440000	J
3.	UNKNOWN	13.14	130000	J
4.	UNKNOWN	13.34	160000	J
5. 526-73-8	BENZENE, 1,2,3-TRIMETHYL-	13.41	310000	NJ
6. 98-82-8	BENZENE, (1-METHYLETHYL)-	13.56	120000	NJ
7. 95-36-3	1,2,4-TRIMETHYLBENZENE	13.65	280000	NJ
8.	UNKNOWN	13.74	210000	J
9. 622-96-8	BENZENE, 1-ETHYL-4-METHYL-	13.91	89000	NJ
10. 1758-88-9	BENZENE, 2-ETHYL-1,4-DIMETHY	14.00	300000	NJ
11.	SUBSTITUTED BENZENE	14.06	180000	J
12.	UNKNOWN	14.15	110000	J
13. 535-77-3	BENZENE, 1-METHYL-3-(1-METHY	14.18	160000	NJ
14. 527-84-4	BENZENE, 1-METHYL-2-(1-METHY	14.24	170000	NJ
15.	UNKNOWN	14.32	130000	J
16. 27133-93-3	2,3-DIHYDRO-1-METHYLINDENE	14.37	130000	NJ
17.	UNKNOWN	14.44	97000	J
18. 105-05-5	BENZENE, 1,4-DIETHYL-	14.48	130000	NJ
19. 527-84-4	BENZENE, 1-METHYL-2-(1-METHY	14.52	220000	NJ
20.	UNKNOWN	14.68	100000	J
21.	UNKNOWN	14.71	77000	J
22. 874-35-1	1H-INDENE, 2,3-DIHYDRO-5-MET	14.74	150000	NJ
23. 933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHY	14.81	160000	NJ
24. 27133-93-3	2,3-DIHYDRO-1-METHYLINDENE	14.86	120000	NJ
25.	UNKNOWN ALCOHOL	14.98	110000	J
26.	UNKNOWN	15.00	140000	J
27. 6682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-D	15.06	130000	NJ
28. 4912-92-9	1H-INDENE, 2,3-DIHYDRO-1,1-D	15.14	130000	NJ
29.	UNKNOWN	15.41	78000	J
30. 6682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-D	15.50	82000	NJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKWA

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6865-1

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6865-1RA71MEOH

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/20/00

GC Column: J&W DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1300	U
74-87-3	Chloromethane	1300	U
75-01-4	Vinyl Chloride	1300	U
74-83-9	Bromomethane	1300	U
75-00-3	Chloroethane	1300	U
75-69-4	Trichlorofluoromethane	1300	U
75-35-4	1,1-Dichloroethene	1300	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1300	U
67-64-1	Acetone	1300	U
75-15-0	Carbon Disulfide	1300	U
79-20-9	Methyl Acetate	1300	U
75-09-2	Methylene Chloride	1300	U
156-60-5	trans-1,2-Dichloroethene	1300	U
1634-04-4	Methyl tert-Butyl Ether	1300	U
75-34-3	1,1-Dichloroethane	1300	U
156-59-2	cis-1,2-Dichloroethene	1300	U
78-93-3	2-Butanone	1300	U
67-66-3	Chloroform	1300	U
71-55-6	1,1,1-Trichloroethane	1300	U
110-82-7	Cyclohexane	1300	U
56-23-5	Carbon Tetrachloride	1300	U
71-43-2	Benzene	1300	U
107-06-2	1,2-Dichloroethane	1300	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKWA

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6865-1

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6865-1RA71MEOH

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/20/00

GC Column: J&W DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 100(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	1300	U
108-87-2	Methylcyclohexane	1300	U
78-87-5	1,2-Dichloropropane	1300	U
75-27-4	Bromodichloromethane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
108-10-1	4-Methyl-2-Pentanone	1300	U
108-88-3	Toluene	1300	U
10061-02-6	trans-1,3-Dichloropropene	1300	U
79-00-5	1,1,2-Trichloroethane	1300	U
127-18-4	Tetrachloroethene	1300	U
591-78-6	2-Hexanone	1300	U
124-48-1	Dibromochloromethane	1300	U
106-93-4	1,2-Dibromoethane	1300	U
108-90-7	Chlorobenzene	1300	U
100-41-4	Ethylbenzene	1300	U
1330-20-7	Xylene (Total)	1300	U
100-42-5	Styrene	1300	U
75-25-2	Bromoform	1300	U
98-82-8	Isopropylbenzene	1300	U
79-34-5	1,1,2,2-Tetrachloroethane	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	1300	U
95-50-1	1,2-Dichlorobenzene	1300	U
96-12-8	1,2-Dibromo-3-Chloropropane	1300	U
120-82-1	1,2,4-Trichlorobenzene	1300	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKVX

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6864-1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6864-1A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/18/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	1	J

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKVX

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6864-1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6864-1A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/18/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (ul) Soil Aliquot Volume: _____ (uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	16.01	29	NJ
2.	LABORATORY ARTIFACT	17.72	60	J
3.	LABORATORY ARTIFACT	19.26	11	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKVL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6860-2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6860-2A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (ul) Soil Aliquot Volume: _____ (uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	13.39	8	NJ
2. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	15.97	150	NJ
3.	LABORATORY ARTIFACT	17.67	180	J
4.	LABORATORY ARTIFACT	19.19	20	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKVX

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6864-1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6864-1A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/18/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

USEPA Contract Laboratory Program
Organic Traffic Report

Case No. 28678
DAS No.
SDG No. EE025

L

Date Shipped: 11/9/00
Carrier Name: Fed Ex
Airbill: 3497988060
Shipped to:
Liberty Analytical
501 Madison Avenue
Cary NC 27513
(919) 379-4080

Date Received/Received by: 11/10/00 9:30 Alice Evans
Lab Contract No.: 68W99070 Unit Price: 467-

Transfer To:
Date Received/Received By:
Contract No.: Price:

Sampler (Signature)

Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:

1476

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
EE025	Soil/Sediment / Mark Densmore	L/G	BNA (21), PEST (21), VOA (21)	559698 (Ice Only), 559699 (Ice Only) (2)	X125	11/09/2000 10:00	MEE025	GOOD
EE026	Soil/Sediment / Mark Densmore	L/G	BNA (21), PEST (21), VOA (21)	559702 (Ice Only), 559703 (Ice Only) (2)	X126	11/09/2000 10:25	MEE026	
EE027	Soil/Sediment / Mark Densmore	L/G	BNA (21), PEST (21), VOA (21)	559706 (Ice Only), 559707 (Ice Only) (2)	X127	11/09/2000 12:00	MEE027	
EE028	Soil/Sediment / Mark Densmore	L/G	BNA (21), PEST (21), VOA (21)	559710 (Ice Only), 559711 (Ice Only) (2)	X128	11/09/2000 12:15	MEE028	
EE029	Soil/Sediment / Mark Densmore	L/G	BNA (21), PEST (21), VOA (21)	559714 (Ice Only), 559715 (Ice Only) (2)	X129	11/09/2000 15:45	MEE029	
EE02A	Soil/Sediment / Mark Densmore	L/G	BNA (21), PEST (21), VOA (21)	559718 (Ice Only), 559719 (Ice Only) (2)	X130	11/09/2000 16:00	MEE02A	SDG - FINAL SAMPLE

COPY Original EE025 MS 11/10/00

Shipment for Case Complete? Y	Sample(s) to be used for Laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number 47777	Cooler Temperature Upon Receipt: 7°C	
Analysis Key Below:	Concentration: L = Low M = Low/Medium H = High	Type/Designate: Composite = C Grab = G		Custody Seal Intact? 47777	Shipment Iced? Y
BNA=CLP TCL Semivolatiles,PEST=CLP TCL Pesticide/PCBs,VOA=CLP TCL Volatiles					

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr, Reston, VA. 20191-3436 Phone: 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-110900-0001

F2V4.0

USEPA Contract Laboratory Program
Generic Traffic Report/Chain-of-Custody Record

Case No.	28678
DAS No.	
SDG No.	EE025

L

47777

Date Shipped: 11/9/00 Carrier Name: Fed Ex Airbill: 3497988060 Shipped to: Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	Date Received/Received by: 11/10/00 1430 Alice Evans Lab Contract No.: 68499070 Unit Price: $467- Transfer To: Date Received/Received By: Contract No.: Price:	Sampler (Signature)	
		Relinquished By:	Date / Time / Received By:
		Relinquished By:	Date / Time / Received By:
		Relinquished By:	Date / Time / Received By:

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
EE025	Soil/Sediment / Mark Densmore	L/G	Dr (21)	559701 (Ice Only) (1)	X125	11/09/2000 10:00		GOOD
EE026	Soil/Sediment / Mark Densmore	L/G	Dr (21)	559705 (Ice Only) (1)	X126	11/09/2000 10:25		
EE027	Soil/Sediment / Mark Densmore	L/G	Dr (21)	559709 (Ice Only) (1)	X127	11/09/2000 12:00		
EE028	Soil/Sediment / Mark Densmore	L/G	Dr (21)	559713 (Ice Only) (1)	X128	11/09/2000 12:15		
EE029	Soil/Sediment / Mark Densmore	L/G	Dr (21)	559717 (Ice Only) (1)	X129	11/09/2000 15:45		
EE02A	Soil/Sediment / Mark Densmore	L/G	Dr (21)	559721 (Ice Only) (1)	X130	11/09/2000 16:00		SDG-FINAL SAMPLE

COPY original EE025 MIS 11/10/00

Shipment for Case Complete? N Y	Sample(s) to be used for Laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number 47777	Cooler Temperature Upon Receipt: 7°C
Analysis Key Below: Dr=Dry Weight	Concentration: L = Low M = Low/Medium H = High	Type/Designate: Composite = C Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr, Reston, VA. 20191-3436 Phone: 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-110900-0003

F2V4.0

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

NOV-2-6 2000

SDG NARRATIVE
CASE #28678
SDG #EE025
CONTRACT # 68W99070

SAMPLE IDENTIFICATIONS: EE025 EE026 EE027 EE028 EE029 EE02A

The six soil samples listed above were received intact, at 7 degrees C, with proper documentation, in sealed shipping containers, on November 10, 2000. All samples were scheduled for volatile, semivolatile, and pesticide-PCB analysis, and the volatile samples were received in Encore samplers. As no sample was designated for QC, the laboratory received approval from SMO to use EE025. A copy of the e-mail accompanies this narrative.
The samples were prepared and analyzed following Contract Laboratory Protocol(CLP) Statement of Work(SOW), document OLM04.2. This portion of the SDG narrative deals with the volatile fractions only. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for Case # 28678, SDG # EE025 are included in the sample data sections.

All samples were analyzed within holding times, except the medium level matrix spikes generated from EE02A which were analyzed one day outside of analytical holding times. Based on screen data sample EE02A was prepared and analyzed as a medium level sample, and contained high levels of ethylbenzene and xylenes.
Sample dry weight values ranged from 21 to 39 percent. In the low level samples the Target Compound List(TCL) analytes acetone, and methylene chloride were the most frequently identified above the Contract Required Quantitation Limit(CRQL). Sample EE029 also contained benzene, methylcyclohexane, and isopropylbenzene above the CRQL.

Numerous high level TICs were present EE028, EE029, and EE02A and these were generally assessed as various substituted benzenes, substituted naphthalenes, and peaks of unknown charaterization.

All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The system monitoring compounds (SMCs) met recovery criteria in the analyses of these samples, and all of the internal standards met retention time and response criteria in the analyses of these samples.

The associated storage blank met all quality control criteria, and did not contain any target analytes above the CRQL.
The asssociated method blanks met all QC criteria, and also did not contain TCL analytes above the CRQL.

The low level duplicate matrix spikes generated from EE025 met all QC precision and accuracy criteria without exception.
The medium level matrix spikes generated from EE02A met all QC precision and accuracy criteria with exceptions. Spike recoveries fell below QC limits for benzene in both matrix spikes.
Manual quantitations were performed on the process files in some of the the associated initial, and continuing calibration(s) and in all of the submitted samples. The reasons have been coded with explanations provided in the notice included in the narrative section of this SDG.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Roy Sutton
Case Reviewer
November 22, 2000

ALKANE NARRATIVE REPORT
Report date : 11/22/2000
SDG: EE025

Client Sample ID: EE028 Lab Sample ID: EE025-4 File ID: EE025-4A56

Compound	RT	Est. Conc.	Q
Cyclic Alkane	14.73	212.9	J
Cyclic Alkane	15.12	275.4	J
Branched Alkane	15.35	775.3	J
Branched Alkane	15.48	844.3	J
Branched Alkane	15.71	620.2	J
Branched Alkane	15.85	408.9	J
Branched Alkane	16.47	1126	J
Branched Alkane	16.68	798.1	J
Branched Alkane	16.86	1107	J
Cyclic Alkane	17.02	967.0	J
Straight-Chain Alkane	17.60	1223	J
Branched Alkane	18.38	1515	J
Cyclic Alkane	18.76	2180	J
Branched Alkane	18.89	1890	J
Cyclic Alkane	19.65	1851	J
Branched Alkane	19.80	978.1	J

Client Sample ID: EE029 Lab Sample ID: EE025-5 File ID: EE025-5A56

Compound	RT	Est. Conc.	Q
Branched Alkane	4.65	129.7	J
Branched Alkane	7.19	161.1	J
Branched Alkane	7.60	141.9	J
Cyclic Alkane	8.85	226.5	J
Branched Alkane	9.89	263.1	J
Branched Alkane	10.06	35.19	J
Branched Alkane	10.37	254.7	J
Cyclic Alkane	12.91	36.55	J
Cyclic Alkane	13.12	29.81	J
Cyclic Alkane	13.27	34.91	J
Cyclic Alkane	13.85	32.78	J
Cyclic Alkane	13.93	41.60	J
Branched Alkane	18.38	107.3	J
Branched Alkane	18.77	113.0	J

Client Sample ID: EE02A Lab Sample ID: EE025-6 File ID: EE025-6DA71

Compound	RT	Est. Conc.	Q
Branched Alkane	8.08	345500	J
Branched Alkane	8.40	154300	J
Straight-Chain Alkane	8.71	216000	J
Branched Alkane	9.26	317000	J
Cyclic Alkane	9.39	182600	J
Branched Alkane	9.90	295100	J
Branched Alkane	10.05	397300	J
Straight-Chain Alkane	10.40	160300	J
Branched Alkane	10.84	58400	J
Branched Alkane	11.38	157700	J
Straight-Chain Alkane	11.66	128300	J
Cyclic Alkane	12.21	85720	J
Branched Alkane	12.30	238800	J
Branched Alkane	12.38	137800	J
Branched Alkane	13.08	239700	J

Branched Alkane	13.51	77580	J
Branched Alkane	13.81	94670	J
Straight-Chain Alkane	14.59	93470	J
Straight-Chain Alkane	15.21	121600	J

Client Sample ID: VBLKXT Lab Sample ID: WG6955-1 File ID: WG6955-LA71

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	15.89	675.4	J

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

CASE # 28678
SDG # EE025
CONTRACT # 68W99070

SAMPLE IDENTIFICATIONS: EE025, EE026, EE027, EE028, EE029, EE02A

The six soil samples listed above were scheduled for the requested analyses of the semivolatile fractions. The samples were prepared and analyzed following the current EPA Contract Laboratory Program (CLP) Statement of Work (SOW), Document OLM04.2. The pH values of these soil samples ranged from 6.5 to 8.5, and the percent moistures ranged from 21 to 39. This portion of the SDG narrative deals with the semivolatile fractions only. For the receiving information associated with these samples, please refer to the volatile SDG narrative.

Semivolatiles

Extraction and analysis holding time requirements were met for all of these samples.

The Target Compound List (TCL) analytes naphthalene, 2-methylnaphthalene, and phenanthrene were identified above the Contract Required Quantitation Limit (CRQL) in EE02A. No TCL analytes were present at concentrations above the CRQL in the remaining samples. Tentatively Identified Compounds (TICs) were found in all these samples. The one TIC present in EE026 was a blank contaminant. The TICs found in the remaining samples could be characterized as alkanes, amides, carboxylic acids, substituted naphthalenes, phthalates, polyaromatic hydrocarbons (PAHs), thiophenes, and unknowns.

Manual quantitations were performed on one or more of the process files associated with this SDG, including all the samples listed above. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

15 g of raw sample were used to extract EE025 and the duplicate matrix spikes, rather than the method-specified amount of 30 g. The lower weight was used to allow an aliquot of raw sample to be reserved for further extraction, if it became necessary. Low sample volume was received for this sample. The extracts were concentrated to a final volume half that of the method-specified volume, and therefore no effective dilution was performed during the extraction procedure.

In the initial undiluted analysis of EE02A, the on-column amount of 2-methylnaphthalene exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration. The sample was reanalyzed at a 2x dilution in order to bring the on-column amount into range. We have reported and billed for both analyses of EE02A.

All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All of the surrogates met recovery criteria in the analyses of these samples. All of the internal standards met response and retention time criteria in the analyses of these samples.

The three associated method blanks met all quality control criteria. Two of the method blanks contained levels of phthalate esters within allowable limits. TICs were found in each of these method blanks.

EE025 was used as the original to prepare the duplicate matrix spikes as requested. The base surrogate 2-fluorobiphenyl was flagged as an outlier in the matrix spike. With one exception, the associated duplicate matrix spikes met all advisory accuracy criteria. Recovery of the spike compound n-nitroso-di-n-propylamine did not meet QC criteria in the analysis of the matrix spike. However, all of the Relative Percent Differences (RPDs) failed quality control criteria in the comparison of the duplicate matrix spikes. In accordance with the Statement of Work (SOW), we have reported the data without further analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Michael Steven Schapira 11/22/00

Michael Steven Schapira

Data Reviewer II
November 22, 2000

ALKANE NARRATIVE REPORT
Report date : 11/22/2000
SDG: EE025

Client Sample ID: EE029 Lab Sample ID: EE025-5 File ID: EE025-5A66

Compound	RT	Est. Conc.	Q
Branched Alkane	14.14	198.3	J
Straight-Chain Alkane	16.78	456.3	J
Branched Alkane	17.27	349.7	J
Unknown Alkane	17.68	261.4	J
Unknown Alkane	18.15	349.3	J
Unknown Alkane	18.80	212.0	J

Client Sample ID: EE027 Lab Sample ID: EE025-3 File ID: EE025-3A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	22.90	91.83	J
Straight-Chain Alkane	24.03	167.9	J
Unknown Alkane	25.20	175.0	J
Unknown Alkane	26.59	157.9	J

Client Sample ID: EE02A Lab Sample ID: EE025-6 File ID: EE025-6A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	12.14	7421	J
Branched Alkane	12.29	4484	J
Unknown Alkane	12.87	585.5	J
Unknown Alkane	13.27	816.2	J
Branched Alkane	13.96	650.7	J
Unknown Alkane	14.05	607.4	J
Branched Alkane	14.12	870.6	J
Straight-Chain Alkane	14.37	1106	J
Straight-Chain Alkane	15.37	1167	J
Unknown Alkane	16.31	624.8	J
Unknown Alkane	16.38	903.6	J
Unknown Alkane	16.75	1360	J
Branched Alkane	16.94	1338	J
Branched Alkane	17.24	1234	J
Branched Alkane	17.39	915.4	J
Branched Alkane	17.56	1115	J
Unknown Alkane	17.63	1295	J
Cyclic Alkane	17.78	1002	J
Unknown Alkane	18.10	1215	J
Straight-Chain Alkane	18.36	968.4	J

Client Sample ID: EE025 Lab Sample ID: EE025-1 File ID: EE025-1JA66

Compound	RT	Est. Conc.	Q
Unknown Alkane	23.95	129.0	J

Client Sample ID: EE02ADL Lab Sample ID: EE025-6 File ID: EE025-6DA66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	12.13	4315	JD
Branched Alkane	12.28	3095	JD

Cyclic Alkane	12.50	2860	JD
Cyclic Alkane	12.63	2350	JD
Branched Alkane	12.72	2197	JD
Unknown Alkane	12.85	2445	JD
Straight-Chain Alkane	13.26	4282	JD
Unknown Alkane	13.46	2365	JD
Branched Alkane	14.10	1648	JD
Straight-Chain Alkane	14.34	2804	JD
Unknown Alkane	14.98	2253	JD
Straight-Chain Alkane	15.35	1526	JD
Branched Alkane	16.74	2501	JD
Cyclic Alkane	16.87	1293	JD
Branched Alkane	16.92	2094	JD
Straight-Chain Alkane	17.18	1656	JD
Branched Alkane	17.23	3266	JD
Unknown Alkane	17.62	2066	JD
Cyclic Alkane	17.77	1465	JD
Unknown Alkane	18.09	2487	JD

CompuChem
a division of Liberty Analytical Corp.
501 Madison Avenue
Cary, North Carolina 27513

SDG NARRATIVE

CASE: 28678
SDG: EE025
CONTRACT: 68W99070

SAMPLE IDENTIFICATIONS: EE025, EE026, EE027, EE028, EE029, EE02A

This portion of the SDG narrative covers only the pesticide fractions of the six (6) samples listed above. For receiving information pertaining to these samples, please refer to the portion of the SDG narrative that covers the volatile fractions.

PESTICIDES

Extraction and analysis holding time requirements were met for all of these samples. No pesticide or PCB Target Compound List (TCL) analytes were confirmed by dual column analysis at a concentration above the Contract Required Quantitation Limit (CRQL) in any of these samples.

Manual quantitations were performed on several of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

All of the surrogates met recovery criteria with one exception. The recovery of tetrachloro-m-xylene (TCX) fell just below the quality control criteria limit on the CLPEST column in the analysis of EE028. All of the detected surrogates met retention time criteria in the analyses of these samples.

The associated method blank met all quality control criteria. No pesticide or PCB TCL analytes were confirmed in the method blank.

EE025 was used as the original to prepare the duplicate matrix spikes as requested. The associated duplicate matrix spikes met all advisory accuracy and precision criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions listed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Stephanie W. Winfield 11-22-00
Stephanie W. Winfield
Technical Reviewer
November 22, 2000

Alice Evans

From: Senfield, Christopher <Christopher.Senfield@dyncorp.com>
To: 'Alice Evans' <aevans@compuchemlabs.com>
Sent: Monday, November 13, 2000 11:16 AM
Attach: Alice Evans.vcf
Subject: FW: Case 28678

Hi Alice,

Wes forwarded this to me. These selections are fine if they have enough
volume.

Chris

Chris Senfield
Dyncorp
(703) 264-9526

-----Original Message-----
From: Markham, Wesley
Sent: Monday, November 13, 2000 11:12 AM
To: Senfield, Christopher
Subject: FW: Case 28678

Chris,

Region 5 stuff from LIBRTY.

-----Original Message-----
From: Alice Evans [mailto:aevans@compuchemlabs.com]
Sent: Monday, November 13, 2000 11:01 AM
To: Wesely Markham
Subject: Case 28678

Samples received on 11/10/00

No designated QC

May we pick MEE025? for inorganics

May we pick EE025 for organics?

They are not listed as blanks on the Traffic Reports.

Thanks Alice

Alice Evans
CompuChem/Liberty
501 Madison Ave
Cary, NC 27513
919-379-4080

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Level:(low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKVL	97	94	98		0
02	EE025	100	100	98		0
03	EE026	101	97	95		0
04	EE027	110	98	96		0
05	EE028	103	89	97		0
06	EE029	103	101	90		0
07	VBLKVX	99	106	100		0
08	EE025MS	86	91	83		0
09	EE025MSD	93	97	90		0
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Level: (low/med) MED

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKWA	89	88	86		0
02	EE02A	93	97	93		0
03	VBLKXT	92	96	90		0
04	EE02AMS	85	90	84		0
05	EE02AMSD	97	102	88		0
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKYT	92	93	84		0
02	VHBLKXT	93	94	89		0
03						
04						
05						
06						
07						
08						
09						
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix Spike - EPA Sample No.: EE025 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	56.63	0.00	48.38	85	59-172
Trichloroethene	56.63	0.00	45.81	81	62-137
Benzene	56.63	0.00	47.85	84	66-142
Toluene	56.63	0.00	48.71	86	59-139
Chlorobenzene	56.63	0.00	46.72	83	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	57.96	54.39	94	10	22	59-172
Trichloroethene	57.96	48.24	83	2	24	62-137
Benzene	57.96	49.08	85	1	21	66-142
Toluene	57.96	49.66	86	0	21	59-139
Chlorobenzene	57.96	48.28	83	0	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix Spike - EPA Sample No.: EE02A Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	8446	0.00	9905	117	59-172
Trichloroethene	8446	0.00	8058	95	62-137
Benzene	8446	33970	9726	-287*	66-142
Toluene	8446	0.00	8161	97	59-139
Chlorobenzene	8446	0.00	7727	91	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	8446	11020	130	11	22	59-172
Trichloroethene	8446	8962	106	11	24	62-137
Benzene	8446	11920	-261*	-9	21	66-142
Toluene	8446	8920	106	9	21	59-139
Chlorobenzene	8446	8600	102	11	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 2 out of 10 outside limits

COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKVL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Lab File ID: WG6860-2A56 Lab Sample ID: WG6860-2

Date Analyzed: 11/15/00 Time Analyzed: 1053

GC Column: EQUITY624 5ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: F50056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE025	EE025-1	EE025-1A56	1416
02	EE026	EE025-2	EE025-2A56	1447
03	EE027	EE025-3	EE025-3A56	1518
04	EE028	EE025-4	EE025-4A56	1609
05	EE029	EE025-5	EE025-5A56	1741
06				
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKVX

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Lab File ID: WG6864-1A56 Lab Sample ID: WG6864-1

Date Analyzed: 11/18/00 Time Analyzed: 1045

GC Column: EQUITY624 5ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: F50056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE025MS	WG6860-4	WG6860-4A56	1225
02	EE025MSD	WG6860-5	WG6860-5A56	1255
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKWA

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Lab File ID: WG6865-1RA71MEOH Lab Sample ID: WG6865-1

Date Analyzed: 11/20/00 Time Analyzed: 1243

GC Column: J&W DB-6245ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972HP71

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE02A	EE025-6	EE025-6DA71	1324
02				
03				
04				
05				
06				
07				
08				
09				
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11				
12				
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COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKXT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Lab File ID: WG6955-1A71 Lab Sample ID: WG6955-1

Date Analyzed: 11/21/00 Time Analyzed: 1625

GC Column: EQUITY624 5ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972HP71

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EE02AMS	WG6955-4	WG6955-4D2A7	1703
02	EE02AMSD	WG6955-5	WG6955-5D2A7	1733
03				
04				
05				
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKYT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Lab File ID: WG6994-1A71 Lab Sample ID: WG6994-1

Date Analyzed: 11/21/00 Time Analyzed: 1043

GC Column: EQUITY624 5ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972HP71

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VHBLKXT	WG6955-6	WG6955-6R3A7	1903
02				
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-1

Sample wt/vol: 5.67(g/mL) G Lab File ID: EE025-1A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 22 Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	1	J
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	49	B
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	11 ~~10~~	JB
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-butyl ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	4	J
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U

12-14-00

FORM I VOA-1 OLM04.2

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-1

Sample wt/vol: 5.67(g/mL) G Lab File ID: EE025-1A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 22 Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-Chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE025

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-1

Sample wt/vol: 5.67 (g/mL) G Lab File ID: EE025-1A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 22 Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	13.47	6	NJB U
2. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	16.07	22	NJB U
3.	LABORATORY ARTIFACT	17.79	20	JB U
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FORM I VOA-TIC OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025MS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6860-4

Sample wt/vol: 5.66(g/mL) G Lab File ID: WG6860-4A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 22 Date Analyzed: 11/18/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	1	J
75-35-4	1,1-Dichloroethene	48	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	40	
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	11	J
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-butyl ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	5	J
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	48	
107-06-2	1,2-Dichloroethane	11	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025MS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6860-4

Sample wt/vol: 5.66(g/mL) G Lab File ID: WG6860-4A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 22 Date Analyzed: 11/18/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	46	
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	49	
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	47	
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-Chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025MSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6860-5

Sample wt/vol: 5.53(g/mL) G Lab File ID: WG6860-5A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 22 Date Analyzed: 11/18/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	3	J
75-35-4	1,1-Dichloroethene	54	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	7	J
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl-tert-butyl ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	49	
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE026

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-2

Sample wt/vol: 4.57(g/mL) G Lab File ID: EE025-2A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 21 Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	14	U
108-87-2	Methylcyclohexane	14	U
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	14	U
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
1330-20-7	Xylene (Total)	4	J
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3-Dichlorobenzene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
95-50-1	1,2-Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-Chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE026

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-2

Sample wt/vol: 4.57 (g/mL) G Lab File ID: EE025-2A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 21 Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 6 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

ACH 12-14-00

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.28	38	J
2.	UNKNOWN	8.74	28	J
3.	UNKNOWN	9.75	24	J
4. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	13.38	10	NJB U
5. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	15.97	24	NJB U
6.	LABORATORY ARTIFACT	17.67	23	JB U
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE027

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-3

Sample wt/vol: 5.76(g/mL) G Lab File ID: EE025-3A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 24 Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	160	B
75-15-0	Carbon Disulfide	2	J
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	18	B U
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-butyl ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	23	
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U

NON 17-14-00

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE027

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-3

Sample wt/vol: 5.76(g/mL) G Lab File ID: EE025-3A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 24 Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	3	J
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-Chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE027

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-3

Sample wt/vol: 5.76 (g/mL) G Lab File ID: EE025-3A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 24 Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

ACH 12-14-00

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	13.39	10	NJB U
2. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	15.97	29	NJB U
3.	LABORATORY ARTIFACT	17.67	21	JB U
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FORM I VOA-TIC OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE028

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-4

Sample wt/vol: 5.00(g/mL) G Lab File ID: EE025-4A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 39 Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	16	U
74-87-3	Chloromethane	16	U
75-01-4	Vinyl Chloride	16	U
74-83-9	Bromomethane	16	U
75-00-3	Chloroethane	16	U
75-69-4	Trichlorofluoromethane	16	U
75-35-4	1,1-Dichloroethene	16	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	16	U
67-64-1	Acetone	29	B U
75-15-0	Carbon Disulfide	16	U
79-20-9	Methyl Acetate	16	U
75-09-2	Methylene Chloride	17	B U
156-60-5	trans-1,2-Dichloroethene	16	U
1634-04-4	Methyl-tert-butyl ether	16	U
75-34-3	1,1-Dichloroethane	16	U
156-59-2	cis-1,2-Dichloroethene	16	U
78-93-3	2-Butanone	16	U
67-66-3	Chloroform	16	U
71-55-6	1,1,1-Trichloroethane	16	U
110-82-7	Cyclohexane	16	U
56-23-5	Carbon Tetrachloride	16	U
71-43-2	Benzene	16	U
107-06-2	1,2-Dichloroethane	16	U

12-14-01

FORM I VOA-1 OLM04.2

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE028

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-4

Sample wt/vol: 5.00(g/mL) G Lab File ID: EE025-4A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 39 Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	16	U
108-87-2	Methylcyclohexane	16	U
78-87-5	1,2-Dichloropropane	16	U
75-27-4	Bromodichloromethane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
108-10-1	4-Methyl-2-Pentanone	16	U
108-88-3	Toluene	16	U
10061-02-6	trans-1,3-Dichloropropene	16	U
79-00-5	1,1,2-Trichloroethane	16	U
127-18-4	Tetrachloroethene	16	U
591-78-6	2-Hexanone	16	U
124-48-1	Dibromochloromethane	16	U
106-93-4	1,2-Dibromoethane	16	U
108-90-7	Chlorobenzene	16	U
100-41-4	Ethylbenzene	16	U
1330-20-7	Xylene (Total)	16	U
100-42-5	Styrene	16	U
75-25-2	Bromoform	16	U
98-82-8	Isopropylbenzene	16	U
79-34-5	1,1,2,2-Tetrachloroethane	16	U
541-73-1	1,3-Dichlorobenzene	16	U
106-46-7	1,4-Dichlorobenzene	16	U
95-50-1	1,2-Dichlorobenzene	16	U
96-12-8	1,2-Dibromo-3-Chloropropane	16	U
120-82-1	1,2,4-Trichlorobenzene	16	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE028

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-4

Sample wt/vol: 5.00 (g/mL) G Lab File ID: EE025-4A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 39 Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	15.64	440	J
2.	UNKNOWN ALKENE	15.91	660	J
3.	UNKNOWN ALKENE	16.15	590	J
4.	UNKNOWN	16.21	580	J
5.	UNKNOWN	16.55	550	J
6.	UNKNOWN	16.76	820	J
7. 493-02-7	NAPHTHALENE, DECAHYDRO-, TRA	17.20	920	NJ
8.	UNKNOWN	17.31	840	J
9.	UNKNOWN ALKENE	17.37	920	J
10.	UNKNOWN	17.48	1600	J
11.	UNKNOWN	17.72	880	J
12.	UNKNOWN	17.78	630	J
13.	UNKNOWN	17.84	1800	J
14.	UNKNOWN	17.97	1600	J
15.	UNKNOWN	18.08	860	J
16.	UNKNOWN	18.19	800	J
17.	UNKNOWN	18.30	1600	J
18.	UNKNOWN	18.44	1800	J
19.	SUBSTITUTED BENZENE	18.61	1600	J
20.	UNKNOWN	18.99	1300	J
21.	UNKNOWN	19.09	1200	J
22.	UNKNOWN	19.25	3300	J
23.	SUBSTITUTED BENZENE	19.45	1000	J
24.	UNKNOWN PAH	19.52	510	J
25.	UNKNOWN	19.88	620	J
26.	UNKNOWN	20.04	1100	J
27.	UNKNOWN	20.12	660	J
28. 10374-74-0	7-TETRADECENE	20.27	670	NJ
29.	UNKNOWN	20.59	510	J
30.	UNKNOWN	20.66	1600	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE029

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-5

Sample wt/vol: 5.67(g/mL) G Lab File ID: EE025-5A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 26 Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	2	J
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	49	B
75-15-0	Carbon Disulfide	4	J
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	17	B U
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl-tert-butyl ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	53	
107-06-2	1,2-Dichloroethane	12	U

12-14-01 REV

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE029

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-5

Sample wt/vol: 5.67(g/mL) G Lab File ID: EE025-5A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 26 Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	120	
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	4	J
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	3	J
1330-20-7	Xylene (Total)	8	J
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	18	
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-Chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EE029

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-5

Sample wt/vol: 5.67 (g/mL) G Lab File ID: EE025-5A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 26 Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.09	74	J
2.	SUBSTITUTED BENZENE	15.98	110	J
3.	SUBSTITUTED BENZENE	17.10	110	J
4. 934-80-5	BENZENE, 4-ETHYL-1,2-DIMETHY	17.51	130	NJ
5.	SUBSTITUTED BENZENE	17.62	190	J
6. 535-77-3	BENZENE, 1-METHYL-3-(1-METHY	17.86	150	NJ
7. 824-22-6	1H-INDENE, 2,3-DIHYDRO-4-MET	18.15	130	NJ
8.	UNKNOWN PAH	18.30	300	J
9.	UNKNOWN	18.44	94	J
10. 4175-53-5	1H-INDENE, 2,3-DIHYDRO-1,3-D	18.58	250	NJ
11. 56253-64-6	BENZENE, (2-METHYL-1-BUTENYL	18.71	230	NJ
12.	UNKNOWN	18.88	180	J
13.	UNKNOWN PAH	19.00	130	J
14.	UNKNOWN	19.05	130	J
15. 17059-48-2	1H-INDENE, 2,3-DIHYDRO-1,6-D	19.17	260	NJ
16. 6682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-D	19.34	240	NJ
17.	SUBSTITUTED BENZENE	19.46	130	J
18.	UNKNOWN PAH	19.52	200	J
19.	UNKNOWN	19.66	190	J
20.	UNKNOWN PAH	19.81	150	J
21.	UNKNOWN	19.96	75	J
22. 264-09-5	BENZOCYCLOHEPTATRIENE	20.05	460	NJ
23.	UNKNOWN	20.29	81	J
24.	UNKNOWN	20.46	98	J
25.	UNKNOWN	20.60	160	J
26.	UNKNOWN	20.70	85	J
27. 1127-76-0	NAPHTHALENE, 1-ETHYL-	20.86	170	NJ
28. 575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	21.00	240	NJ
29. 575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	21.20	250	NJ
30. 575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	21.52	78	NJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE02A

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-6

Sample wt/vol: 4.0 (g/mL) G Lab File ID: EE025-6DA71

Level: (low/med) MED Date Received: 11/10/00

% Moisture: not dec. 26 Date Analyzed: 11/20/00

GC Column: J&W DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 10(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	18000	U
74-87-3	Chloromethane	18000	U
75-01-4	Vinyl Chloride	18000	U
74-83-9	Bromomethane	18000	U
75-00-3	Chloroethane	18000	U
75-69-4	Trichlorofluoromethane	18000	U
75-35-4	1,1-Dichloroethene	18000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	18000	U
67-64-1	Acetone	24000	
75-15-0	Carbon Disulfide	18000	U
79-20-9	Methyl Acetate	18000	U
75-09-2	Methylene Chloride	4100	J
156-60-5	trans-1,2-Dichloroethene	18000	U
1634-04-4	Methyl tert-Butyl Ether	18000	U
75-34-3	1,1-Dichloroethane	18000	U
156-59-2	cis-1,2-Dichloroethene	18000	U
78-93-3	2-Butanone	18000	U
67-66-3	Chloroform	18000	U
71-55-6	1,1,1-Trichloroethane	18000	U
110-82-7	Cyclohexane	18000	U
56-23-5	Carbon Tetrachloride	18000	U
71-43-2	Benzene	34000	
107-06-2	1,2-Dichloroethane	18000	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE02A

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-6

Sample wt/vol: 4.0 (g/mL) G Lab File ID: EE025-6DA71

Level: (low/med) MED Date Received: 11/10/00

% Moisture: not dec. 26 Date Analyzed: 11/20/00

GC Column: J&W DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 10(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	18000	U
108-87-2	Methylcyclohexane	89000	
78-87-5	1,2-Dichloropropane	18000	U
75-27-4	Bromodichloromethane	18000	U
10061-01-5	cis-1,3-Dichloropropene	18000	U
108-10-1	4-Methyl-2-Pentanone	18000	U
108-88-3	Toluene	18000	U
10061-02-6	trans-1,3-Dichloropropene	18000	U
79-00-5	1,1,2-Trichloroethane	18000	U
127-18-4	Tetrachloroethene	18000	U
591-78-6	2-Hexanone	18000	U
124-48-1	Dibromochloromethane	18000	U
106-93-4	1,2-Dibromoethane	18000	U
108-90-7	Chlorobenzene	18000	U
100-41-4	Ethylbenzene	110000	
1330-20-7	Xylene (Total)	160000	
100-42-5	Styrene	18000	U
75-25-2	Bromoform	18000	U
98-82-8	Isopropylbenzene	17000	J
79-34-5	1,1,2,2-Tetrachloroethane	18000	U
541-73-1	1,3-Dichlorobenzene	18000	U
106-46-7	1,4-Dichlorobenzene	18000	U
95-50-1	1,2-Dichlorobenzene	18000	U
96-12-8	1,2-Dibromo-3-Chloropropane	18000	U
120-82-1	1,2,4-Trichlorobenzene	18000	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE02AMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6955-4

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6955-4D2A71

Level: (low/med) MED Date Received: 11/10/00

% Moisture: not dec. 26 Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 10(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	18000	U
74-87-3	Chloromethane	18000	U
75-01-4	Vinyl Chloride	18000	U
74-83-9	Bromomethane	18000	U
75-00-3	Chloroethane	18000	U
75-69-4	Trichlorofluoromethane	18000	U
75-35-4	1,1-Dichloroethene	9900	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	18000	U
67-64-1	Acetone	18000	JB U
75-15-0	Carbon Disulfide	18000	U
79-20-9	Methyl Acetate	18000	U
75-09-2	Methylene Chloride	18000 ~~16000~~	JB U
156-60-5	trans-1,2-Dichloroethene	18000	U
1634-04-4	Methyl tert-Butyl Ether	18000	U
75-34-3	1,1-Dichloroethane	18000	U
156-59-2	cis-1,2-Dichloroethene	18000	U
78-93-3	2-Butanone	18000	U
67-66-3	Chloroform	18000	U
71-55-6	1,1,1-Trichloroethane	18000	U
110-82-7	Cyclohexane	18000	U
56-23-5	Carbon Tetrachloride	18000	U
71-43-2	Benzene	9700	J
107-06-2	1,2-Dichloroethane	18000	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE02AMS

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6955-4

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6955-4D2A71

Level: (low/med) MED Date Received: 11/10/00

% Moisture: not dec. 26 Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 10(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	8100	J
108-87-2	Methylcyclohexane	44000	
78-87-5	1,2-Dichloropropane	18000	U
75-27-4	Bromodichloromethane	18000	U
10061-01-5	cis-1,3-Dichloropropene	18000	U
108-10-1	4-Methyl-2-Pentanone	18000	U
108-88-3	Toluene	8200	JB
10061-02-6	trans-1,3-Dichloropropene	18000	U
79-00-5	1,1,2-Trichloroethane	18000	U
127-18-4	Tetrachloroethene	18000	U
591-78-6	2-Hexanone	18000	U
124-48-1	Dibromochloromethane	18000	U
106-93-4	1,2-Dibromoethane	18000	U
108-90-7	Chlorobenzene	7700	J
100-41-4	Ethylbenzene	59000	
1330-20-7	Xylene (Total)	87000	
100-42-5	Styrene	18000	U
75-25-2	Bromoform	18000	U
98-82-8	Isopropylbenzene	9000	J
79-34-5	1,1,2,2-Tetrachloroethane	18000	U
541-73-1	1,3-Dichlorobenzene	18000	U
106-46-7	1,4-Dichlorobenzene	18000	U
95-50-1	1,2-Dichlorobenzene	18000	U
96-12-8	1,2-Dibromo-3-Chloropropane	18000	U
120-82-1	1,2,4-Trichlorobenzene	18000	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE02AMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6955-5

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6955-5D2A71

Level: (low/med) MED Date Received: 11/10/00

% Moisture: not dec. 26 Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 10(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	18000	U
74-87-3	Chloromethane	18000	U
75-01-4	Vinyl Chloride	18000	U
74-83-9	Bromomethane	18000	U
75-00-3	Chloroethane	18000	U
75-69-4	Trichlorofluoromethane	18000	U
75-35-4	1,1-Dichloroethene	11000	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	18000	U
67-64-1	Acetone	18000 ~~17000~~	JB U
75-15-0	Carbon Disulfide	18000	U
79-20-9	Methyl Acetate	18000	U
75-09-2	Methylene Chloride	18000	U
156-60-5	trans-1,2-Dichloroethene	18000	U
1634-04-4	Methyl tert-Butyl Ether	18000	U
75-34-3	1,1-Dichloroethane	18000	U
156-59-2	cis-1,2-Dichloroethene	18000	U
78-93-3	2-Butanone	18000	U
67-66-3	Chloroform	18000	U
71-55-6	1,1,1-Trichloroethane	18000	U
110-82-7	Cyclohexane	18000	U
56-23-5	Carbon Tetrachloride	18000	U
71-43-2	Benzene	12000	J
107-06-2	1,2-Dichloroethane	18000	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

~~EPA~~ SAMPLE NO.

EE02AMSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6955-5

Sample wt/vol: 4.0 (g/mL) G Lab File ID: WG6955-5D2A71

Level: (low/med) MED Date Received: 11/10/00

% Moisture: not dec. 26 Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000(ul) Soil Aliquot Volume: 10(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	9000	J
108-87-2	Methylcyclohexane	77000	
78-87-5	1,2-Dichloropropane	18000	U
75-27-4	Bromodichloromethane	18000	U
10061-01-5	cis-1,3-Dichloropropene	18000	U
108-10-1	4-Methyl-2-Pentanone	18000	U
108-88-3	Toluene	18000 ~~8900~~	JB U
10061-02-6	trans-1,3-Dichloropropene	18000	U
79-00-5	1,1,2-Trichloroethane	18000	U
127-18-4	Tetrachloroethene	18000	U
591-78-6	2-Hexanone	18000	U
124-48-1	Dibromochloromethane	18000	U
106-93-4	1,2-Dibromoethane	18000	U
108-90-7	Chlorobenzene	8600	J
100-41-4	Ethylbenzene	110000	
1330-20-7	Xylene (Total)	160000	
100-42-5	Styrene	18000	U
75-25-2	Bromoform	18000	U
98-82-8	Isopropylbenzene	17000	J
79-34-5	1,1,2,2-Tetrachloroethane	18000	U
541-73-1	1,3-Dichlorobenzene	18000	U
106-46-7	1,4-Dichlorobenzene	18000	U
95-50-1	1,2-Dichlorobenzene	18000	U
96-12-8	1,2-Dibromo-3-Chloropropane	18000	U
120-82-1	1,2,4-Trichlorobenzene	18000	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKXT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) WATER Lab Sample ID: WG6955-6

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG6955-6R3A71

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKXT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) WATER Lab Sample ID: WG6955-6

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG6955-6R3A71

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKXT

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) WATER Lab Sample ID: WG6955-6

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG6955-6R3A71

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE025MSD

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6860-5

Sample wt/vol: 5.53(g/mL) G Lab File ID: WG6860-5A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 22 Date Analyzed: 11/18/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	48	
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	1	J
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (Total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-Chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EE026

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: EE025-2

Sample wt/vol: 4.57(g/mL) G Lab File ID: EE025-2A56

Level: (low/med) LOW Date Received: 11/10/00

% Moisture: not dec. 21 Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	14	U
75-35-4	1,1-Dichloroethene	14	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	U
67-64-1	Acetone	14 ~~11~~	JB u
75-15-0	Carbon Disulfide	14	U
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	24	B U
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	Methyl-tert-butyl ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	14	U
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	14	U
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKVL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6860-2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6860-2A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	3	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKVL

Lab Name: COMPUCHEM Contract: 68W99070

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: EE025

Matrix: (soil/water) SOIL Lab Sample ID: WG6860-2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: WG6860-2A56

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(ul) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

DATE: December 14, 2000

TO: IEPA
1021 North Grand Avenue East
Springfield, IL 62702

Attn: Bob Casper

SITE NAME: CLARK OIL

CASE NO	LAB	NO # OF SAMPLES	SDG	MATRIX
28678	COMPUCHEM	20	MEE01B	SOIL
			X101 - X120	

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
CHICAGO, IL 60605

Sent By: Eva M. Dixon, ESAT

RECEIVED
DEC 19 2000
IEPA-BOL-FSRS

DEC 1 4 2000

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: December 12, 2000

SUBJECT: Review of Data
Received for Review on November 22, 2000

FROM: Stephen L. Ostrodka, Chief (SMF-4J) / LF
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data by CADRE for the following case:

SITE NAME: Clark Oil

CASE NUMBER: 28678 SDG NUMBER: MEE01B

Number and Type of Samples: 20 soils

Sample Numbers: MEE01B-H,J-N,P-T,W-Y

Laboratory: Compuchem Hrs. for Review: 14 +2.5

Following are our findings:

All data are usable with the qualifications described in the attached narrative.

L. Finkelberg
12/13/2000

C: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

Case Number : 28678
Site Name: Clark Oil

SDG Number: MEE01B
Laboratory: Compuchem

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twenty soil samples numbered MEE01B-H, MEE01J-N, MEE01P-T, and MEE01W-Y were collected on November 1 and 2, 2000. The lab received the samples on November 3, 2000. The sample cooler temperature was 8 degree C when received. All samples were analyzed for metals and cyanide. All samples were analyzed using CLP SOW ILM04.1 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

Reviewed By: J. Ganz
Date: December 12, 2000

Case Number : 28678
Site Name: Clark Oil

SDG Number: MEE01B
Laboratory: Compuchem

1. HOLDING TIME:

HOLDING TIME CRITERIA

Inorganic

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	0	2.0	0.0
Mercury	28	0	2.0	0.0
Cyanide	14	0	12.0	0.0

DC-280: The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

MEE01B, MEE01C, MEE01D, MEE01E, MEE01F, MEE01G
MEE01H, MEE01J, MEE01K, MEE01L, MEE01M, MEE01N
MEE01P, MEE01Q, MEE01R, MEE01S, MEE01T, MEE01W
MEE01X, MEE01Y

No problems were found for this qualification.

2. CALIBRATIONS:

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85.00	115.00	70.00	130.00
ICP	90.00	110.00	75.00	125.00
Mercury	80.00	120.00	65.00	135.00

No problems were found for this qualification.

3. BLANKS:

LABORATORY BLANKS CRITERIA

Reviewed By: J. Ganz
Date: December 12, 2000

Case Number : 28678
Site Name: Clark Oil

SDG Number: MEE01B
Laboratory: Compuchem

The following samples are associated with a negative blank concentration whose absolute value is greater than the IDL. The sample concentration is greater than the IDL but less than 5 times the absolute value of the blank concentration. Hits are qualified "J". Some non-detect concentration values are sufficiently high that the detection limit may be elevated. These non-detects are qualified "UJ".

MEE01J
Selenium

MEE01L
Selenium

MEE01N
Selenium

MEE01S
Selenium

MEE01T
Selenium

MEE01Y
Selenium

DC-284: The following inorganic samples are associated with a blank concentration which is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the blank concentration. Hits are qualified "J"; non-detects are not flagged.

Antimony
MEE01D, MEE01H, MEE01J, MEE01K, MEE01L, MEE01P
MEE01R, MEE01S, MEE01T, MEE01W, MEE01Y

Arsenic
MEE01E, MEE01G, MEE01N, MEE01P, MEE01Q, MEE01W

Beryllium
MEE01E, MEE01N

Cadmium
MEE01C, MEE01G, MEE01H, MEE01L, MEE01P, MEE01S

Mercury
MEE01B, MEE01C, MEE01D, MEE01E, MEE01F, MEE01G
MEE01H, MEE01J, MEE01K, MEE01L, MEE01M, MEE01N
MEE01P, MEE01Q, MEE01R, MEE01S, MEE01T, MEE01W
MEE01X, MEE01Y

Reviewed By: J. Ganz
Date: December 12, 2000

Case Number : 28678
Site Name: Clark Oil

SDG Number: MEE01B
Laboratory: Compuchem

The following samples are associated with a negative blank concentration whose absolute value is greater than the IDL. The sample concentration is greater than the IDL but less than 5 times the absolute value of the blank concentration. Hits are qualified "J". Some non-detect concentration values are sufficiently high that the detection limit may be elevated. These non-detects are qualified "UJ".

MEE01J
Selenium

MEE01L
Selenium

MEE01N
Selenium

MEE01S
Selenium

MEE01T
Selenium

MEE01Y
Selenium

DC-284: The following inorganic samples are associated with a blank concentration which is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the blank concentration. Hits are qualified "J"; non-detects are not flagged.

Antimony
MEE01D, MEE01H, MEE01J, MEE01K, MEE01L, MEE01P
MEE01R, MEE01S, MEE01T, MEE01W, MEE01Y

Arsenic
MEE01E, MEE01G, MEE01N, MEE01P, MEE01Q, MEE01W

Beryllium
MEE01E, MEE01N

Cadmium
MEE01C, MEE01G, MEE01H, MEE01L, MEE01P, MEE01S

Mercury
MEE01B, MEE01C, MEE01D, MEE01E, MEE01F, MEE01G
MEE01H, MEE01J, MEE01K, MEE01L, MEE01M, MEE01N
MEE01P, MEE01Q, MEE01R, MEE01S, MEE01T, MEE01W
MEE01X, MEE01Y

Reviewed By: J. Ganz
Date: December 12, 2000

Sodium
MEE01B, MEE01C, MEE01D, MEE01E, MEE01F, MEE01G
MEE01H, MEE01J, MEE01K, MEE01L, MEE01M, MEE01N
MEE01Q, MEE01R, MEE01S, MEE01T, MEE01W
MEE01X, MEE01Y

Cyanide
MEE01C, MEE01D, MEE01F, MEE01H, MEE01K, MEE01L
MEE01P, MEE01R, MEE01S, MEE01T

DC-338: During review of the following inorganic samples, the reported IDL/default CRDL value was used for cyanide.

MEE01B, MEE01C, MEE01D, MEE01E, MEE01F, MEE01G
MEE01H, MEE01J, MEE01K, MEE01L, MEE01M, MEE01N
MEE01P, MEE01Q, MEE01R, MEE01S, MEE01T, MEE01W
MEE01X, MEE01Y

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits	
Upper	125.0
Lower	75.0
Extreme lower	30.0

DC-268: The following inorganic samples are associated with a matrix spike recovery which is low (30-74 %) indicating that sample results may be biased low.
Hits are qualified "J" and non-detects are qualified "UJ".

Antimony
MEE01B, MEE01C, MEE01D, MEE01E, MEE01F, MEE01G
MEE01H, MEE01J, MEE01K, MEE01L, MEE01M, MEE01N
MEE01P, MEE01Q, MEE01R, MEE01S, MEE01T, MEE01W
MEE01X, MEE01Y

Arsenic
MEE01B, MEE01C, MEE01D, MEE01E, MEE01F, MEE01G
MEE01H, MEE01J, MEE01K, MEE01L, MEE01M, MEE01N
MEE01P, MEE01Q, MEE01R, MEE01S, MEE01T, MEE01W
MEE01X, MEE01Y

Reviewed By: J. Ganz
Date: December 12, 2000

Case Number : 28678
Site Name: Clark Oil

SDG Number: MEE01B
Laboratory: Compuchem

Chromium
MEE01B, MEE01C, MEE01D, MEE01E, MEE01F, MEE01G
MEE01H, MEE01J, MEE01K, MEE01L, MEE01M, MEE01N
MEE01P, MEE01Q, MEE01R, MEE01S, MEE01T, MEE01W
MEE01X, MEE01Y

Nickel
MEE01B, MEE01C, MEE01D, MEE01E, MEE01F, MEE01G
MEE01H, MEE01J, MEE01K, MEE01L, MEE01M, MEE01N
MEE01P, MEE01Q, MEE01R, MEE01S, MEE01T, MEE01W
MEE01X, MEE01Y

Selenium
MEE01B, MEE01C, MEE01D, MEE01E, MEE01F, MEE01G
MEE01H, MEE01J, MEE01K, MEE01L, MEE01M, MEE01N
MEE01P, MEE01Q, MEE01R, MEE01S, MEE01T, MEE01W
MEE01X, MEE01Y

Thallium
MEE01B, MEE01C, MEE01D, MEE01E, MEE01F, MEE01G
MEE01H, MEE01J, MEE01K, MEE01L, MEE01M, MEE01N
MEE01P, MEE01Q, MEE01R, MEE01S, MEE01T, MEE01W
MEE01X, MEE01Y

Zinc
MEE01B, MEE01C, MEE01D, MEE01E, MEE01F, MEE01G
MEE01H, MEE01J, MEE01K, MEE01L, MEE01M, MEE01N
MEE01P, MEE01Q, MEE01R, MEE01S, MEE01T, MEE01W
MEE01X, MEE01Y

DC-269: The following inorganic samples are associated with a matrix spike recovery which is extremely low (<30 %) indicating that sample results may be biased low.
Hits are qualified "J" and non-detects are qualified "R".

Manganese
MEE01B, MEE01C, MEE01D, MEE01E, MEE01F, MEE01G
MEE01H, MEE01J, MEE01K, MEE01L, MEE01M, MEE01N
MEE01P, MEE01Q, MEE01R, MEE01S, MEE01T, MEE01W
MEE01X, MEE01Y

No problems were found for the laboratory control sample.

5. LABORATORY AND FIELD DUPLICATE

DC-256: The following inorganic samples are associated with duplicate results which did not meet relative percent difference (RPD) criteria.

Reviewed By: J. Ganz
Date: December 12, 2000

Hits and non-detects are qualified "J".

Calcium
MEE01B, MEE01C, MEE01D, MEE01E, MEE01F, MEE01G
MEE01H, MEE01J, MEE01K, MEE01L, MEE01M, MEE01N
MEE01P, MEE01Q, MEE01R, MEE01S, MEE01T, MEE01W
MEE01X, MEE01Y

Lead
MEE01B, MEE01C, MEE01D, MEE01E, MEE01F, MEE01G
MEE01H, MEE01J, MEE01K, MEE01L, MEE01M, MEE01N
MEE01P, MEE01Q, MEE01R, MEE01S, MEE01T, MEE01W
MEE01X, MEE01Y

Manganese
MEE01B, MEE01C, MEE01D, MEE01E, MEE01F, MEE01G
MEE01H, MEE01J, MEE01K, MEE01L, MEE01M, MEE01N
MEE01P, MEE01Q, MEE01R, MEE01S, MEE01T, MEE01W
MEE01X, MEE01Y

Zinc
MEE01B, MEE01C, MEE01D, MEE01E, MEE01F, MEE01G
MEE01H, MEE01J, MEE01K, MEE01L, MEE01M, MEE01N
MEE01P, MEE01Q, MEE01R, MEE01S, MEE01T, MEE01W
MEE01X, MEE01Y

DC-330: The following inorganic samples are associated with duplicate results which did not meet absolute difference criteria. Hits and non-detects are qualified "J".

Nickel
MEE01B, MEE01C, MEE01D, MEE01E, MEE01F, MEE01G
MEE01H, MEE01J, MEE01K, MEE01L, MEE01M, MEE01N
MEE01P, MEE01Q, MEE01R, MEE01S, MEE01T, MEE01W
MEE01X, MEE01Y

6. ICP ANALYSIS

The following results are associated with replicate exposure relative standard deviations (RSDs) that were high, indicating possible interference. Hits are qualified "J".

Arsenic
MEE01P

Selenium
MEE01J, MEE01L, MEE01N, MEE01S, MEE01T, MEE01Y

Thallium

Reviewed By: J. Ganz
Date: December 12, 2000

Case Number : 28678
Site Name: Clark Oil

SDG Number: MEE01B
Laboratory: Compuchem

MEE01C, MEE01E, MEE01K, MEE01N

The following result was reported as a non-detect; however, positive concentration values greater than the CRDL were obtained for two of the three exposures indicating possible interference. This result is qualified "J".

Selenium
MEE01C

Negative thallium concentration values less than the negative CRDL were obtained for the interference check "A" sample (ICSA). Although the negative bias was not completely consistent, indication of interference or noise in the channel is evident.
Hits are qualified "J".

Thallium
MEE01D, MEE01T

7. GFAA ANALYSIS

No GFAA analyses were performed for this case.

8. SAMPLE RESULTS

All data, except those qualified above, are acceptable.

Reviewed By: J. Ganz
Date: December 12, 2000

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #: 28678 SDG : MEE01B
Site : CLARK OIL
Lab. LIBRTY
Reviewer J. GANZ
Date : DECEMBER 12, 2000

Number of Soil Samples : 20
Number of Water Samples : 0

Sample Number :	MEE01B		MEE01C		MEE01D		MEE01E		MEE01F	
Sampling Location :	X101		X102		X103		X104		X105	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/1/00		11/1/00		11/1/00		11/1/00		11/1/00	
Time Sampled	11:30		11:30		12:50		13:10		15:00	
%Solids :	99.1		66.9		84.4		77.2		73.4	
Dilution Factor	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	192		12200		9410		4020		12700	
ANTIMONY	0.44	UJ	0.65	UJ	1.6	J	0.59	UJ	0.62	UJ
ARSENIC	0.65	UJ	6.0	J	9.3	J	1.8	J	5.8	J
BARIUM	5.3		164		300		235		213	
BERYLLIUM	0.038	U	1.0		0.96		0.28	J	0.81	
CADMIUM	0.057	U	0.31	J	0.70		0.077	U	0.081	U
CALCIUM	1810	J	7260	J	51700	J	18600	J	5410	J
CHROMIUM	1.8	J	17.5	J	190	J	7.6	J	14.3	J
COBALT	0.20		7.3		6.1		5.4		8.7	
COPPER	4.2		36.0		73.9		10.1		23.1	
IRON	447		16200		31400		8320		18300	
LEAD	2.7	J	21.7	J	111	J	7.5	J	13.5	J
MAGNESIUM	209		3960		6930		6890		3170	
MANGANESE	49.7	J	334	J	2110	J	271	J	646	J
MERCURY	0.058	J	0.21	J	0.13	J	0.088	J	0.10	J
NICKEL	1.6	J	21.8	J	70.4	J	14.7	J	20.5	J
POTASSIUM	44.2		1950		1680		1100		1130	
SELENIUM	0.82	UJ	1.2	J	0.99	UJ	1.1	UJ	1.2	UJ
SILVER	0.076	U	0.11	U	0.33		0.10	U	0.11	U
SODIUM	115	J	553	J	479	J	269	J	232	J
THALLIUM	1.1	UJ	9.3	J	12.9	J	4.3	J	9.7	J
VANADIUM	7.0		29.1		57.2		14.9		21.8	
ZINC	6.4	J	83.7	J	580	J	35.2	J	58.8	J
CYANIDE	0.045	U	0.11	J	0.23	J	0.056	U	0.060	J

Case # 28678 SDG : MEE01B
Site : CLARK OIL
Lab. : LIBRTY
Reviewer : J. GANZ
Date : DECEMBER 12, 2000

Sample Number :	MEE01G		MEE01H		MEE01J		MEE01K		MEE01L	
Sampling Location :	X106		X107		X108		X109		X110	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/1/00		11/1/00		11/1/00		11/2/00		11/2/00	
Time Sampled :	15:20		16:00		16:45		08:15		09:25	
%Solids :	76.6		81.1		75.9		74.4		83.2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	9280		7860		8660		12600		9740	
ANTIMONY	0.56	UJ	0.57	J	0.96	J	0.68	J	0.78	J
ARSENIC	4.2	J	7.5	J	7.8	J	5.9	J	8.4	J
BARIUM	269		157		184		157		276	
BERYLLIUM	0.72		0.60		0.60		0.83		0.72	
CADMIUM	0.20	J	0.45	J	0.078	U	0.075	U	0.097	J
CALCIUM	4480	J	3610	J	4520	J	4940	J	6280	J
CHROMIUM	14.8	J	12.4	J	14.7	J	14.8	J	15.1	J
COBALT	7.4		9.7		8.8		13.5		6.2	
COPPER	22.0		22.9		22.3		22.3		179	
IRON	13900		17200		19800		17500		14400	
LEAD	23.8	J	15.5	J	13.1	J	17.9	J	375	J
MAGNESIUM	2600		3150		3920		3280		2850	
MANGANESE	481	J	699	J	167	J	615	J	429	J
MERCURY	0.097	J	0.070	J	0.091	J	0.090	J	0.14	J
NICKEL	16.1	J	31.1	J	27.6	J	20.4	J	16.6	J
POTASSIUM	1480		930		935		1130		1280	
SELENIUM	1.0	UJ	0.98	UJ	2.1	J	1.1	UJ	1.7	J
SILVER	0.098	U	0.091	U	0.10	U	0.10	U	0.094	U
SODIUM	260	J	209	J	253	J	283	J	346	J
THALLIUM	8.6	J	11.2	J	13.4	J	9.7	J	8.1	J
VANADIUM	27.3		25.1		27.4		25.1		26.2	
ZINC	64.4	J	55.1	J	59.2	J	57.8	J	66.8	J
CYANIDE	0.057	U	0.076	J	0.058	U	0.10	J	0.12	J

Analytical Results (Qualified Data)

Case #: 28678 SDG : MEE01B
Site : CLARK OIL
Lab. LIBRTY
Reviewer J. GANZ
Date : DECEMBER 12, 2000

Sample Number :	MEE01M		MEE01N		MEE01P		MEE01Q		MEE01R	
Sampling Location :	X111		X112		X113		X114		X115	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/2/00		11/2/00		11/2/00		11/2/00		11/2/00	
Time Sampled	09:35		10:05		11:05		12:00		12:15	
%Solids :	81.3		62.4		74.2		80.2		73.9	
Dilution Factor	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	6840		952		11800		193		15100	
ANTIMONY	0.53	UJ	26.5	J	0.71	J	0.57	UJ	0.65	J
ARSENIC	5.9	J	2.4	J	3.7	J	1.0	J	5.2	J
BARIUM	164		34.4		842		66.0		247	
BERYLLIUM	0.43		0.10	J	0.77		0.049	U	1.0	
CADMIUM	0.070	U	26.8		0.17	J	0.074	U	0.080	U
CALCIUM	2950	J	11100	J	4120	J	3150	J	5580	J
CHROMIUM	11.3	J	196	J	14.1	J	5.0	J	16.6	J
COBALT	6.1		2.8		37.0		0.96		9.0	
COPPER	14.7		333		21.8		12.4		26.0	
IRON	13500		4670		13900		1430		20300	
LEAD	9.0	J	172	J	17.6	J	22.2	J	12.6	J
MAGNESIUM	2920		2410		3420		868		3830	
MANGANESE	229	J	74.3	J	3900	J	22.7	J	599	J
MERCURY	0.098	J	0.37	J	0.073	J	0.081	J	0.069	J
NICKEL	18.8	J	70.2	J	29.9	J	3.1	J	21.9	J
POTASSIUM	784		120		993		42.2		1290	
SELENIUM	1.0	UJ	3.0	J	1.1	UJ	1.1	UJ	1.2	UJ
SILVER	0.093	U	1.0		0.11	U	0.18		0.11	U
SODIUM	262	J	298	J	1040	J	224	J	260	J
THALLIUM	7.8	J	3.1	J	7.0	J	1.4	UJ	9.9	J
VANADIUM	19.2		403		23.4		5.3		29.5	
ZINC	44.2	J	2480	J	44.5	J	39.1	J	55.0	J
CYANIDE	0.055	U	0.64		0.082	J	0.49		0.076	J

Case #: 28678 SDG : MEE01B
Site : CLARK OIL
Lab. : LIBRTY
Reviewer : J. GANZ
Date : DECEMBER 12, 2000

Sample Number :	MEE01S		MEE01T		MEE01W		MEE01X		MEE01Y	
Sampling Location :	X116		X117		X118		X119		X120	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/2/00		11/2/00		11/2/00		11/2/00		11/2/00	
Time Sampled :	13:25		13:25		14:20		14:35		15:40	
%Solids	79.4		78.4		78.5		75.1		76.3	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	9460		24600		448		11000		8240	
ANTIMONY	0.64	J	1.2	J	0.83	J	0.57	UJ	1.0	J
ARSENIC	5.4	J	14.2	J	2.0	J	6.1	J	9.1	J
BARIUM	238		197		14.6		317		155	
BERYLLIUM	0.64		0.76		0.049	U	0.63		0.46	
CADMIUM	0.10	J	0.076	U	0.074	U	0.074	U	0.079	U
CALCIUM	23300	J	17600	J	7600	J	3680	J	15900	J
CHROMIUM	126	J	127	J	24.2	J	16.7	J	76.6	J
COBALT	9.1		8.9		1.8		6.5		32.0	
COPPER	28.1		39.9		18.1		19.8		57.5	
IRON	16000		16800		26500		17800		19800	
LEAD	39.3	J	88.8	J	7.7	J	13.4	J	84.1	J
MAGNESIUM	3900		6100		875		3720		3160	
MANGANESE	583	J	544	J	113	J	436	J	316	J
MERCURY	0.11	J	0.13	J	0.092	J	0.11	J	0.21	J
NICKEL	24.7	J	26.4	J	24.9	J	20.8	J	65.4	J
POTASSIUM	1180		1490		95.5		1250		874	
SELENIUM	2.6	J	1.5	J	9.6	J	1.1	UJ	1.7	J
SILVER	0.099	U	0.10	U	0.15		0.099	U	0.10	U
SODIUM	268	J	349	J	246	J	328	J	494	J
THALLIUM	7.7	J	7.1	J	14.9	J	10.3	J	11.6	J
VANADIUM	63.6		70.1		334		27.5		53.5	
ZINC	139	J	217	J	33.8	J	62.2	J	95.9	J
CYANIDE	0.39	J	0.41	J	2.8		0.059	U	3.5	

Page___

QC EXCEPTION SUMMARY REPORT

CASE\SAS#: 28678 SITE: Clark Oil MATRIX: Soil WATER SAMPLE SPK: ____

DATA SET: MEEDIB LAB: Compuchem CONC: low WATER SAMPLE DUP: ____

LAB QC # ____ REVIEWED BY: J. Ganz SOIL SAMPLE SPK: ____

DATE: December 7, 2000 SOIL SAMPLE DUP: ____

FORM #		FORM 2	FORM 2	FORM 3	FORM 3	FORM 3	FORM 4	FORM 5	FORM 6	FORM 7	FORM 7	FORM 9	FORM 9	FORM 6	FORM 5	FIELD	FIELD	FIELD	FIELD		
ELEMENT	HOLD TIME	INITIAL CALIB	CONTI N CALIB	CALIB BLANK	PREP WATER BLANK	PREP SOIL BLANK	ICS %R	SOIL SPIKE %R	SOIL DUP RPD	LCS AQ	LCS SOIL	SERIAL DILUTION AQUEOUS	SERIAL DILUTION SOIL	AQ DUP RPD	AQ SPIKE %R	BLANK	DUP RPD	BLANK	DUP RPD	GFAA DUP	GFA ANA SPIK
ALUMINUM																					
ANTIMONY				2.4				48.3													
ARSENIC				3.6				40.8													
BARIUM																					
BERYLLIUM				0.2																	
CADMIUM				0.5																	
CALCIUM									137.3												
CHROMIUM								35.0													
COBALT																					
COPPER																					
IRON																					
LEAD				-2.6		0.528			52.1												
MAGNESIUM																					
MANGANESE								-7.3	37.7												
MERCURY				0.1		0.069															
NICKEL								67.1	>2xCRDL												
POTASSIUM																					
SELENIUM				-4.7				43.5													
SILVER																					
SODIUM						136.718															
THALLIUM							-17,+10	64.4													
TIN																					
VANADIUM																					
ZINC								63.5	37.7												
CYANIDE						0.095															

Sb: D, H, J-L, P, R-T, W, Y Cd: C, G, H, L, P, S Se(5): J, L, N, S, T, Y Se on IC: non-detect rptd but 2 exp > CRDL 8°C

As: E, G, N, P, Q, W ~~Pb(H): C(?)~~ Na: B - all except P As on P

USEPA Contract Laboratory Program
Inorganic Traffic Report

9:25 9:25 AM

Case No. 28678
DAS No.
SDG No. MEE01B

L

250

Date Shipped: 11/2/00
Carrier Name: Fed Ex
Airbill: 3497988056
Shipped to:
Liberty Analytical
501 Madison Avenue
Cary NC 27513
(919) 379-4080

Date Received/Received by: 11/3/00 N. Stoll
Lab Contract No.: 68W00082 Unit Price: $75.00

Transfer To:
Date Received/Received By:
Contract No.: Price:

Sampler (Signature) Mark Wagner 11/2/00

Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MEE01B	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	5-59601 (1)	X101	11/01/2000 11:30	EE01B	Good
MEE01C	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	5-59606 (Ice Only) (1)	X102	11/01/2000 11:30	EE01C	
MEE01D	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	5-59602 (1)	X103	11/01/2000 12:50	EE01D	
MEE01E	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	5-59613 (Ice Only) (1)	X104	11/01/2000 13:10	EE01E	
MEE01F	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	59617 (Ice Only) (1)	X105	11/01/2000 15:00	EE01F	
MEE01G	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	59621 (Ice Only) (1)	X106	11/01/2000 15:20	EE01G	
MEE01H	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	5-59625 (Ice Only) (1)	X107	11/01/2000 16:00	EE01H	
MEE01J	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	5-59629 (1)	X108	11/01/2000 16:45	EE01J	
MEE01K	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	59633 (Ice Only) (1)	X109	11/02/2000 08:15	EE01K	
MEE01L	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	59637 (Ice Only) (1)	X110	11/02/2000 09:25	EE01L	
MEE01M	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	59641 (1)	X111	11/02/2000 09:35	EE01M	
MEE01N	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	59645 (Ice Only) (1)	X112	11/02/2000 10:05	EE01N	
MEE01P	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	59649 (Ice Only) (1)	X113	11/02/2000 11:05	EE01P	
MEE01Q	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	5-59653 (Ice Only) (1)	X114	11/02/2000 12:00	EE01Q	
MEE01R	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	59657 (Ice Only) (1)	X115	11/02/2000 12:15	EE01R	
MEE01S	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	59661 (Ice Only) (1)	X116	11/02/2000 13:25	EE01S	

ORIGINAL

Shipment for Case Complete? Y	Sample(s) to be used for Laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number 47775 + 47776	Cooler Temperature Upon Receipt: 8°C no Temp. Ok.
Analysis Key Below: CN=Cyanide,TM=CLP TAL Total Metals	Concentration: L = Low M = Low/Medium H = High	Type/Designate: Composite = C Grab = G	Custody Seal Intact?	Shipment Iced?

PR provides preliminary results. Requests for preliminary results will increase analytical costs
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr, Reston, VA. 20191-3436 Phone: 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-110200-0003

F2V4.0

USEPA Contract Laboratory Program
Inorganic Traffic Report

9.25 AM

Case No. 28678
DAS No.
SDG No. MEE01B, MEE01Z

251

Date Shipped: 11/2/00 **Carrier Name:** Fed Ex **Airbill:** 3497988056 **Shipped to:** Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	**Date Received/Received by:** 11/3/00 M. [illegible] **Lab Contract No.:** 108W00082 **Unit Price:** $75 **Transfer To:** _____ **Date Received/Received By:** _____ **Contract No.:** _____ **Price:** _____	**Sampler (Signature)** [signature] 11/2/00 **Relinquished By:** **Date / Time** **Received By:** **Relinquished By:** **Date / Time** **Received By:** **Relinquished By:** **Date / Time** **Received By:**

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MEE01T	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	5-59665 (Ice Only) (1)	X117	11/02/2000 13:25	EE01T	Good
MEE01W	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	5-59669 (Ice Only) (1)	X118	11/02/2000 14:20	EE01W	
MEE01X	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	5-59673 (1)	X119	11/02/2000 14:35	EE01X	
MEE01Y	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	59677 (Ice Only) (1)	X120	11/02/2000 15:40	EE01Y	SDG Final Sampl
MEE01Z	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	59681 (Ice Only) (1)	X121	11/02/2000 15:50	EE01Z	
MEE020	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	59685 (Ice Only) (1)	X122	11/02/2000 16:50	EE020	
MEE021	Soil/Sediment	L/G	CN (21), TM (21)	59689 (Ice Only) (1)	X123	11/02/2000 16:55	EE021	
MEE022	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	59693 (Ice Only) (1)	X124	11/02/2000 17:10	EE022	SDG Final Sampl

ORIGINAL

Shipment for Case Complete? Y	**Sample(s) to be used for Laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number** 47775 + 47776	**Cooler Temperature Upon Receipt:** 8°C No Temp Blk
Analysis Key Below: CN=Cyanide, TM=CLP TAL Total Metals	**Concentration:** L = Low M = Low/Medium H = High	**Type/Designate:** Composite = C Grab = G	**Custody Seal Intact?**	**Shipment Iced?**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr, Reston, VA. 20191-3436 Phone: 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-110200-0003

NOV 2 2 2000

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

SDG NARRATIVE
CASE # 28678 SDG # MEE01B
CONTRACT # 68W00082

The indicated Sample Delivery Group (SDG) consisting of twenty (20) soil samples was received into the laboratory information management system (LIMS) on November 3, 2000 intact and in good condition with Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were analyzed, in accordance with EPA CLP Statement of Work (SOW) document ILM04.1 for the complete Inorganic Target Analyte List (TAL).

The correlation coefficients for the mercury and cyanide analytical runs are confirmed to be $\geq$ 0.9950.

The cooler temperature indicator bottle was not found with the samples received November 3, 2000 and sample temperature was 8 degrees Celsius.

E-mail: Two SDGs - MEE01B (20 sample) and MEE01Z (4 sample), no QC was provided on Traffic Report. MEE01Y and MEE01Z were chosen, respectively.

EQUATIONS FOR SOLID SAMPLE CALCULATIONS:

Client sample MEE01Y is used for illustration.
Any sample result that is $\leq$ the instrument detection limit (IDL) will be entered at the IDL for that analyte.
ICP Equation:
Equation for obtaining metals sample results in mg/Kg as presented on FORM I data sheets from ICP instrument acquired results in ug/L (ppb).

$$\text{Concentration (\% solids) (mg/Kg)} \quad \frac{C \times D \times V}{W \times S}$$

Where
C = concentration (ug/L)
D = dilution factor
V = final volume in liters after sample preparation
W = weight in grams of wet sample
S = % solids/100

Example: aluminum result ug/L to mg/Kg.

$$\frac{31423.86 \text{ ug/L (C)} \times 1 \text{ (D)} \times 0.2 \text{ L (V)}}{1.0 \text{ g (W)} \times 0.763 \text{ (S)}} = 8236.9 \text{ mg/Kg reported as 8240 mg/Kg}$$

Mercury Equation:

Equation for obtaining mercury sample results in mg/Kg as presented on FORM I data sheets from instrument acquired results in ug/L (ppb).

$$\frac{A \times D \times F}{B \times E}$$

Where
A = ug/L Hg
B = wet weight of sample
D = dilution factor to bring sample into analysis range
E = % solids/100
F = final volume in liters (0.1 L)

Example: mercury result ug/L to mg/Kg

$$\frac{0.3140 \text{ ug/L (A)} \times 1 \text{ (D)} \times 0.1 \text{ (F)}}{0.2 \text{ g (B)} \times 0.763 \text{ (E)}} = 0.2057 \text{ mg/Kg reported as } 0..21 \text{ mg/Kg}$$

Cyanide Equation:

Equation for obtaining cyanide sample results in mg/Kg as presented on FORM I data sheets from instrument acquired results in ug/L (ppb).

$$\frac{A \times D \times F}{B \times E}$$

Where
A = ug/L CN
B = wet weight of sample
D = dilution factor to bring sample into analysis range
E = % solids/100
F = final volume in liters (0 05 L)

Example: cyanide result ug/L to mg/Kg

$$\frac{52.9239 \text{ ug/L (A)} \times 1 \text{ (D)} \times 0.05 \text{ L (F)}}{1.0\text{g (B)} \times 0.763 \text{ (E)}} = 3.468 \text{ mg/Kg reported as } 3.5 \text{ mg/Kg}$$

SAMPLE IDs:

The following customer IDs are associated with this SDG:

MEE01B	MEE01C	MEE01D	MEE01E	MEE01F	MEE01G
MEE01H	MEE01J	MEE01K	MEE01L	MEE01M	MEE01N
MEE01P	MEE01Q	MEE01R	MEE01S	MEE01T	MEE01W
MEE01X	MEE01Y				

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within EPA CLP allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSS & PBS) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

COMPUCHEM utilizes a soil Laboratory Control Sample (LCS) purchased from Environmental Resources Associates (ERA). With each lot of soil LCS material purchased, a certification document is included which provides Performance Acceptance Limits ™ (PAL ™). The limits are listed as guidelines for acceptable results and closely approximate the 95% confidence interval. As with any LCS, it is a QC measure used to demonstrate control and any results, which are outside the acceptance criteria, require corrective action up to and including redigesting and reanalyzing the entire sample preparation batch.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike, CCN = WG6743-1 (MEE01YS) was found to be outside CLP control limits for antimony, arsenic, chromium, manganese, nickel, selenium, thallium, and zinc. The reported concentrations for these analytes are flagged with an "N" on all associated Form 1 and on Form 5a.

An "N" indicates a matrix-related interference in the sample preparation procedure &/or analysis for the flagged analyte. This is normally the consequence of a relatively high anionic content in the sample or (for some sediments) an inconsistent sample matrix relative to that analyte.

The sample matrix spike, CCN = WG6726-1 (MEE01YS) was found to be inside CLP control limits for cyanide.

CLP control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

Post-digestion spikes are mandatory for analytes demonstrating unsatisfactory matrix spike recoveries during ICP analysis (excluding silver). The results of such spikes are presented on Form 5b.

Unsatisfactory recovery of post-digestion spikes of this type do not have bearing upon the aforementioned "N" flags, but may indicate interference during analysis &/or a solution matrix which is hostile to the analyte in question.

Satisfactory recovery of an analyte in a post-digestion spike of this type implies interference by the required preparation procedure or in the sample matrix itself. Lack of uniformity for an analyte in sediments will also result in satisfactory recovery of post-digestion spikes after failure in the related matrix spike.

The sample matrix duplicate, CCN = WG6743-2 (MEE01YD) was outside CLP control limits for arsenic, calcium, lead, manganese, nickel, thallium, and zinc. The reported concentrations for these analytes are flagged with a "*" on all associated Form 1 and on Form 6.

A "*" indicates a non-homogeneous sample matrix in regard to the flagged analyte. This is normally the consequence of a relatively coarse texture or of a mixed-matrix in sediment samples.

The sample matrix duplicate, CCN = WG6726-2 (MEE01YD) was inside CLP control limits for cyanide.

CLP control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = MEE01B-20 (MEE01YL) was performed in accordance with CLP requirements for ICP analysis.

The adjusted sample concentrations were inside CLP control limits for the requested analytes.

CLP control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution-adjusted concentrations from the original values for all analyte concentrations with values greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Thomas R. Cole

Thomas R. Cole
Data Reviewer II
November 20, 2000

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

DATA REPORTING QUALIFIERS FOR INORGANICS

On Form I, under the column labeled "C" for concentration qualifier and "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each analyte.

The C (concentration) qualifiers used are:

U: This flag indicates the analyte was analyzed for but not detected. This reported value was obtained from a reading that was less than the Instrument Detection Limit (IDL). The IDL will be adjusted to reflect any dilution and, for soils, the percent moisture.

B: This flag indicates the analyte was analyzed for and the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

The Q qualifiers used are:

E: This flag indicates an estimated value. This flag is used:

1. When the serial dilution (a five fold dilution for CLP and a five fold dilution for SW-846 method 6010B) results are not within 10%. The analyte concentration must be sufficiently high (minimally a factor of 50X above the IDL in the original sample).
2. When the analytical spike recovery associated with the sample is below 40% after two successive dilutions by Graphite Furnace Atomic Absorption (GFAA).

M: This flag applies to GFAA analyses for concentrations greater than the Contract Required Detection Limit (CRDL). This flag is only used for GFAA if the analytical sample or analytical spike duplicate injection reading is not within 20% of the Relative Standard Deviation (RSD).

N: This flag indicates the sample spike recovery is outside of control limits:

***:** This flag is used for duplicate analysis when the sample and the sample duplicate results are not within control limits.

S: This flag applies to GFAA analyses to indicate the reported value was determined by the Method Of Standard Addition (MSA).

W: This flag applies to GFAA analyses when the post-digestion spike (analytical spike) is out of control limits (85% - 115%), while sample absorbance is less than 50% of "spike" absorbance ["spike" is defined as (absorbance or concentration of spike sample) minus (absorbance or concentration of the sample)].

+: This flag applies to GFAA analyses when the correlation coefficient for the MSA is less than 0.995 after two MSA analyses.

NOTE: Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

The extensions: D, S, SD, L. A, added to the end of the client ID represent as follows:

D:	matrix duplicate
S:	matrix spike
SD:	matrix spike duplicate
L:	serial dilution
A:	post digestion spike

Method Codes:

P:	ICP PLASMA
CV:	MERCURY COLD VAPOR AA
CA:	MIDI-DISTILLATION SPECTROPHOTOMETRIC
F:	FURNACE AA

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

NOV 2 2 2000

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

SOW No.: ILM04.1

EPA Sample No.	Lab Sample ID.
MEE01B	MEE01B-1
MEE01C	MEE01B-2
MEE01D	MEE01B-3
MEE01E	MEE01B-4
MEE01F	MEE01B-5
MEE01G	MEE01B-6
MEE01H	MEE01B-7
MEE01J	MEE01B-8
MEE01K	MEE01B-9
MEE01L	MEE01B-10
MEE01M	MEE01B-11
MEE01N	MEE01B-12
MEE01P	MEE01B-13
MEE01Q	MEE01B-14
MEE01R	MEE01B-15
MEE01S	MEE01B-16
MEE01T	MEE01B-17
MEE01W	MEE01B-18
MEE01X	MEE01B-19
MEE01Y	MEE01B-20
MEE01YD	WG6743-2

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Thomas R. Cole Name: Thomas R. Cole

Date: November 20, 2000 Title: Data Reviewer II

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

SOW No.: ILM04.1

EPA Sample No.	Lab Sample ID.
MEE01YD	WG6726-2
MEE01YS	WG6743-1
MEE01YS	WG6726-1

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Thomas R. Cole Name: Thomas R. Cole

Date: November 20, 2000 Title: Data Reviewer II

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01B

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-1

Level (low/med): LOW Date Received: 11/03/00

% Solids: 99.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	192			P
7440-36-0	Antimony	0.44	U	N	P
7440-38-2	Arsenic	0.65	U	N*	P
7440-39-3	Barium	5.3	B		P
7440-41-7	Beryllium	0.038	U		P
7440-43-9	Cadmium	0.057	U		P
7440-70-2	Calcium	1810		*	P
7440-47-3	Chromium	1.8	B	N	P
7440-48-4	Cobalt	0.20	B		P
7440-50-8	Copper	4.2	B		P
7439-89-6	Iron	447			P
7439-92-1	Lead	2.7		*	P
7439-95-4	Magnesium	209	B		P
7439-96-5	Manganese	49.7		N*	P
7439-97-6	Mercury	0.058	B		CV
7440-02-0	Nickel	1.6	B	N*	P
7440-09-7	Potassium	44.2	B		P
7782-49-2	Selenium	0.82	U	N	P
7440-22-4	Silver	0.076	U		P
7440-23-5	Sodium	115	B		P
7440-28-0	Thallium	1.1	U	N*	P
7440-62-2	Vanadium	7.0	B		P
7440-66-6	Zinc	6.4		N*	P
	Cyanide	0.045	U		CA

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01C

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-2

Level (low/med): LOW Date Received: 11/03/00

% Solids: 66.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12200			P
7440-36-0	Antimony	0.65	U	N	P
7440-38-2	Arsenic	6.0		N*	P
7440-39-3	Barium	164			P
7440-41-7	Beryllium	1.0	B		P
7440-43-9	Cadmium	0.31	B		P
7440-70-2	Calcium	7260		*	P
7440-47-3	Chromium	17.5		N	P
7440-48-4	Cobalt	7.3	B		P
7440-50-8	Copper	36.0			P
7439-89-6	Iron	16200			P
7439-92-1	Lead	21.7		*	P
7439-95-4	Magnesium	3960			P
7439-96-5	Manganese	334		N*	P
7439-97-6	Mercury	0.21			CV
7440-02-0	Nickel	21.8		N*	P
7440-09-7	Potassium	1950			P
7782-49-2	Selenium	1.2	U	N	P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	553	B		P
7440-28-0	Thallium	9.3		N*	P
7440-62-2	Vanadium	29.1			P
7440-66-6	Zinc	83.7		N*	P
	Cyanide	0.11	B		CA

Color Before: GRAY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01D

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-3

Level (low/med): LOW Date Received: 11/03/00

% Solids: 84.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9410			P
7440-36-0	Antimony	1.6	B	N	P
7440-38-2	Arsenic	9.3		N*	P
7440-39-3	Barium	300			P
7440-41-7	Beryllium	0.96	B		P
7440-43-9	Cadmium	0.70	B		P
7440-70-2	Calcium	51700		*	P
7440-47-3	Chromium	190		N	P
7440-48-4	Cobalt	6.1	B		P
7440-50-8	Copper	73.9			P
7439-89-6	Iron	31400			P
7439-92-1	Lead	111		*	P
7439-95-4	Magnesium	6930			P
7439-96-5	Manganese	2110		N*	P
7439-97-6	Mercury	0.13			CV
7440-02-0	Nickel	70.4		N*	P
7440-09-7	Potassium	1680			P
7782-49-2	Selenium	0.99	U	N	P
7440-22-4	Silver	0.33	B		P
7440-23-5	Sodium	479	B		P
7440-28-0	Thallium	12.9		N*	P
7440-62-2	Vanadium	57.2			P
7440-66-6	Zinc	580		N*	P
	Cyanide	0.23	B		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01E

b Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-4

Level (low/med): LOW Date Received: 11/03/00

% Solids: 77.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M.
7429-90-5	Aluminum	4020			P
7440-36-0	Antimony	0.59	U	N	P
7440-38-2	Arsenic	1.8	B	N*	P
7440-39-3	Barium	235			P
7440-41-7	Beryllium	0.28	B		P
7440-43-9	Cadmium	0.077	U		P
7440-70-2	Calcium	18600		*	P
7440-47-3	Chromium	7.6		N	P
7440-48-4	Cobalt	5.4	B		P
7440-50-8	Copper	10.1			P
7439-89-6	Iron	8320			P
7439-92-1	Lead	7.5		*	P
7439-95-4	Magnesium	6890			P
7439-96-5	Manganese	271		N*	P
7439-97-6	Mercury	0.088	B		CV
7440-02-0	Nickel	14.7		N*	P
7440-09-7	Potassium	1100	B		P
7782-49-2	Selenium	1.1	U	N	P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	269	B		P
7440-28-0	Thallium	4.3		N*	P
7440-62-2	Vanadium	14.9			P
7440-66-6	Zinc	35.2		N*	P
	Cyanide	0.056	U		CA

Color Before: GRAY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01F

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-5

Level (low/med): LOW Date Received: 11/03/00

% Solids: 73.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12700			P
7440-36-0	Antimony	0.62	U	N	P
7440-38-2	Arsenic	5.8		N*	P
7440-39-3	Barium	213			P
7440-41-7	Beryllium	0.81	B		P
7440-43-9	Cadmium	0.081	U		P
7440-70-2	Calcium	5410		*	P
7440-47-3	Chromium	14.3		N	P
7440-48-4	Cobalt	8.7	B		P
7440-50-8	Copper	23.1			P
7439-89-6	Iron	18300			P
7439-92-1	Lead	13.5		*	P
7439-95-4	Magnesium	3170			P
7439-96-5	Manganese	646		N*	P
7439-97-6	Mercury	0.10	B		CV
7440-02-0	Nickel	20.5		N*	P
7440-09-7	Potassium	1130	B		P
7782-49-2	Selenium	1.2	U	N	P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	232	B		P
7440-28-0	Thallium	9.7		N*	P
7440-62-2	Vanadium	21.8			P
7440-66-6	Zinc	58.8		N*	P
	Cyanide	0.06	B		CA

Color Before: GRAY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01G

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-6

Level (low/med): LOW Date Received: 11/03/00

% Solids 76.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9280			P
7440-36-0	Antimony	0.56	U	N	P
7440-38-2	Arsenic	4.2		N*	P
7440-39-3	Barium	269			P
7440-41-7	Beryllium	0.72	B		P
7440-43-9	Cadmium	0.20	B		P
7440-70-2	Calcium	4480		*	P
7440-47-3	Chromium	14.8		N	P
7440-48-4	Cobalt	7.4	B		P
7440-50-8	Copper	22.0			P
7439-89-6	Iron	13900			P
7439-92-1	Lead	23.8		*	P
7439-95-4	Magnesium	2600			P
7439-96-5	Manganese	481		N*	P
7439-97-6	Mercury	0.097	B		CV
7440-02-0	Nickel	16.1		N*	P
7440-09-7	Potassium	1480			P
7782-49-2	Selenium	1.0	U	N	P
7440-22-4	Silver	0.098	U		P
7440-23-5	Sodium	260	B		P
7440-28-0	Thallium	8.6		N*	P
7440-62-2	Vanadium	27.3			P
7440-66-6	Zinc	64.4		N*	P
	Cyanide	0.057	U		CA

Color Before: GRAY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01H

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-7

Level (low/med): LOW Date Received: 11/03/00

% Solids: 81.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7860			P
7440-36-0	Antimony	0.57	B	N	P
7440-38-2	Arsenic	7.5		N*	P
7440-39-3	Barium	157			P
7440-41-7	Beryllium	0.60	B		P
7440-43-9	Cadmium	0.45	B		P
7440-70-2	Calcium	3610		*	P
7440-47-3	Chromium	12.4		N	P
7440-48-4	Cobalt	9.7	B		P
7440-50-8	Copper	22.9			P
7439-89-6	Iron	17200			P
7439-92-1	Lead	15.5		*	P
7439-95-4	Magnesium	3150			P
7439-96-5	Manganese	699		N*	P
7439-97-6	Mercury	0.070	B		CV
7440-02-0	Nickel	31.1		N*	P
7440-09-7	Potassium	930	B		P
7782-49-2	Selenium	0.98	U	N	P
7440-22-4	Silver	0.091	U		P
7440-23-5	Sodium	209	B		P
7440-28-0	Thallium	11.2		N*	P
7440-62-2	Vanadium	25.1			P
7440-66-6	Zinc	55.1		N*	P
	Cyanide	0.076	B		CA

Color Before: GRAY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

20

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01J

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-8

Level (low/med): LOW Date Received: 11/03/00

% Solids: 75.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8660			P
7440-36-0	Antimony	0.96	B	N	P
7440-38-2	Arsenic	7.8		N*	P
7440-39-3	Barium	184			P
7440-41-7	Beryllium	0.60	B		P
7440-43-9	Cadmium	0.078	U		P
7440-70-2	Calcium	4520		*	P
7440-47-3	Chromium	14.7		N	P
7440-48-4	Cobalt	8.8	B		P
7440-50-8	Copper	22.3			P
7439-89-6	Iron	19800			P
7439-92-1	Lead	13.1		*	P
7439-95-4	Magnesium	3920			P
7439-96-5	Manganese	167		N*	P
7439-97-6	Mercury	0.091	B		CV
7440-02-0	Nickel	27.6		N*	P
7440-09-7	Potassium	935	B		P
7782-49-2	Selenium	2.1		N	P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	253	B		P
7440-28-0	Thallium	13.4		N*	P
7440-62-2	Vanadium	27.4			P
7440-66-6	Zinc	59.2		N*	P
	Cyanide	0.058	U		CA

Color Before: GRAY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01K

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-9

Level (low/med): LOW Date Received: 11/03/00

% Solids: 74.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12600			P
7440-36-0	Antimony	0.68	B	N	P
7440-38-2	Arsenic	5.9		N*	P
7440-39-3	Barium	157			P
7440-41-7	Beryllium	0.83	B		P
7440-43-9	Cadmium	0.075	U		P
7440-70-2	Calcium	4940		*	P
7440-47-3	Chromium	14.8		N	P
7440-48-4	Cobalt	13.5			P
7440-50-8	Copper	22.3			P
7439-89-6	Iron	17500			P
7439-92-1	Lead	17.9		*	P
7439-95-4	Magnesium	3280			P
7439-96-5	Manganese	615		N*	P
7439-97-6	Mercury	0.09	B		CV
7440-02-0	Nickel	20.4		N*	P
7440-09-7	Potassium	1130	B		P
7782-49-2	Selenium	1.1	U	N	P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	283	B		P
7440-28-0	Thallium	9.7		N*	P
7440-62-2	Vanadium	25.1			P
7440-66-6	Zinc	57.8		N*	P
	Cyanide	0.10	B		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01L

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-10

Level (low/med): LOW Date Received: 11/03/00

% Solids: 83.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9740			P
7440-36-0	Antimony	0.78	B	N	P
7440-38-2	Arsenic	8.4		N*	P
7440-39-3	Barium	276			P
7440-41-7	Beryllium	0.72	B		P
7440-43-9	Cadmium	0.097	B		P
7440-70-2	Calcium	6280		*	P
7440-47-3	Chromium	15.1		N	P
7440-48-4	Cobalt	6.2	B		P
7440-50-8	Copper	179			P
7439-89-6	Iron	14400			P
7439-92-1	Lead	375		*	P
7439-95-4	Magnesium	2850			P
7439-96-5	Manganese	429		N*	P
7439-97-6	Mercury	0.14			CV
7440-02-0	Nickel	16.6		N*	P
7440-09-7	Potassium	1280			P
7782-49-2	Selenium	1.7		N	P
7440-22-4	Silver	0.094	U		P
7440-23-5	Sodium	346	B		P
7440-28-0	Thallium	8.1		N*	P
7440-62-2	Vanadium	26.2			P
7440-66-6	Zinc	66.8		N*	P
	Cyanide	0.12	B		CA

Color Before: GRAY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01M

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-11

Level (low/med): LOW Date Received: 11/03/00

% Solids: 81.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6840			P
7440-36-0	Antimony	0.53	U	N	P
7440-38-2	Arsenic	5.9		N*	P
7440-39-3	Barium	164			P
7440-41-7	Beryllium	0.43	B		P
7440-43-9	Cadmium	0.070	U		P
7440-70-2	Calcium	2950		*	P
7440-47-3	Chromium	11.3		N	P
7440-48-4	Cobalt	6.1	B		P
7440-50-8	Copper	14.7			P
7439-89-6	Iron	13500			P
7439-92-1	Lead	9.0		*	P
7439-95-4	Magnesium	2920			P
7439-96-5	Manganese	229		N*	P
7439-97-6	Mercury	0.098	B		CV
7440-02-0	Nickel	18.8		N*	P
7440-09-7	Potassium	784	B		P
7782-49-2	Selenium	1.0	U	N	P
7440-22-4	Silver	0.093	U		P
7440-23-5	Sodium	262	B		P
7440-28-0	Thallium	7.8		N*	P
7440-62-2	Vanadium	19.2			P
7440-66-6	Zinc	44.2		N*	P
	Cyanide	0.055	U		CA

Color Before: GRAY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01N

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-12

Level (low/med): LOW Date Received: 11/03/00

% Solids: 62.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	952			P
7440-36-0	Antimony	26.5		N	P
7440-38-2	Arsenic	2.4	B	N*	P
7440-39-3	Barium	34.4	B		P
7440-41-7	Beryllium	0.10	B		P
7440-43-9	Cadmium	26.8			P
7440-70-2	Calcium	11100		*	P
7440-47-3	Chromium	196		N	P
7440-48-4	Cobalt	2.8	B		P
7440-50-8	Copper	333			P
7439-89-6	Iron	4670			P
7439-92-1	Lead	172		*	P
7439-95-4	Magnesium	2410			P
7439-96-5	Manganese	74.3		N*	P
7439-97-6	Mercury	0.37			CV
7440-02-0	Nickel	70.2		N*	P
7440-09-7	Potassium	120	B		P
7782-49-2	Selenium	3.0		N	P
7440-22-4	Silver	1.0	B		P
7440-23-5	Sodium	298	B		P
7440-28-0	Thallium	3.1		N*	P
7440-62-2	Vanadium	403			P
7440-66-6	Zinc	2480		N*	P
	Cyanide	0.64	B		CA

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01P

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-13

Level (low/med): LOW Date Received: 11/03/00

% Solids: 74.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11800			P
7440-36-0	Antimony	0.71	B	N	P
7440-38-2	Arsenic	3.7		N*	P
7440-39-3	Barium	842			P
7440-41-7	Beryllium	0.77	B		P
7440-43-9	Cadmium	0.17	B		P
7440-70-2	Calcium	4120		*	P
7440-47-3	Chromium	14.1		N	P
7440-48-4	Cobalt	37.0			P
7440-50-8	Copper	21.8			P
7439-89-6	Iron	13900			P
7439-92-1	Lead	17.6		*	P
7439-95-4	Magnesium	3420			P
7439-96-5	Manganese	3900		N*	P
7439-97-6	Mercury	0.073	B		CV
7440-02-0	Nickel	29.9		N*	P
7440-09-7	Potassium	993	B		P
7782-49-2	Selenium	1.1	U	N	P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	1040	B		P
7440-28-0	Thallium	7.0		N*	P
7440-62-2	Vanadium	23.4			P
7440-66-6	Zinc	44.5		N*	P
	Cyanide	0.082	B		CA

Color Before: GRAY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01Q

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-14

Level (low/med): LOW Date Received: 11/03/00

% Solids: 80.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	193			P
7440-36-0	Antimony	0.57	U	N	P
7440-38-2	Arsenic	1.0	B	N*	P
7440-39-3	Barium	66.0			P
7440-41-7	Beryllium	0.049	U		P
7440-43-9	Cadmium	0.074	U		P
7440-70-2	Calcium	3150		*	P
7440-47-3	Chromium	5.0		N	P
7440-48-4	Cobalt	0.96	B		P
7440-50-8	Copper	12.4			P
7439-89-6	Iron	1430			P
7439-92-1	Lead	22.2		*	P
7439-95-4	Magnesium	868	B		P
7439-96-5	Manganese	22.7		N*	P
7439-97-6	Mercury	0.081	B		CV
7440-02-0	Nickel	3.1	B	N*	P
7440-09-7	Potassium	42.2	B		P
7782-49-2	Selenium	1.1	U	N	P
7440-22-4	Silver	0.18	B		P
7440-23-5	Sodium	224	B		P
7440-28-0	Thallium	1.4	U	N*	P
7440-62-2	Vanadium	5.3	B		P
7440-66-6	Zinc	39.1		N*	P
	Cyanide	0.49	B		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01R

b Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-15

Level (low/med): LOW Date Received: 11/03/00

% Solids: 73.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15100			P
7440-36-0	Antimony	0.65	B	N	P
7440-38-2	Arsenic	5.2		N*	P
7440-39-3	Barium	247			P
7440-41-7	Beryllium	1.0	B		P
7440-43-9	Cadmium	0.080	U		P
7440-70-2	Calcium	5580		*	P
7440-47-3	Chromium	16.6		N	P
7440-48-4	Cobalt	9.0	B		P
7440-50-8	Copper	26.0			P
7439-89-6	Iron	20300			P
7439-92-1	Lead	12.6		*	P
7439-95-4	Magnesium	3830			P
7439-96-5	Manganese	599		N*	P
7439-97-6	Mercury	0.069	B		CV
7440-02-0	Nickel	21.9		N*	P
7440-09-7	Potassium	1290	B		P
7782-49-2	Selenium	1.2	U	N	P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	260	B		P
7440-28-0	Thallium	9.9		N*	P
7440-62-2	Vanadium	29.5			P
7440-66-6	Zinc	55.0		N*	P
	Cyanide	0.076	B		CA

Color Before: GRAY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01S

Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-16

Level (low/med): LOW Date Received: 11/03/00

% Solids: 79.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9460			P
7440-36-0	Antimony	0.64	B	N	P
7440-38-2	Arsenic	5.4		N*	P
7440-39-3	Barium	238			P
7440-41-7	Beryllium	0.64	B		P
7440-43-9	Cadmium	0.10	B		P
7440-70-2	Calcium	23300		*	P
7440-47-3	Chromium	126		N	P
7440-48-4	Cobalt	9.1	B		P
7440-50-8	Copper	28.1			P
7439-89-6	Iron	16000			P
7439-92-1	Lead	39.3		*	P
7439-95-4	Magnesium	3900			P
7439-96-5	Manganese	583		N*	P
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel	24.7		N*	P
7440-09-7	Potassium	1180	B		P
7782-49-2	Selenium	2.6		N	P
7440-22-4	Silver	0.099	U		P
7440-23-5	Sodium	268	B		P
7440-28-0	Thallium	7.7		N*	P
7440-62-2	Vanadium	63.6			P
7440-66-6	Zinc	139		N*	P
	Cyanide	0.39	B		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01T

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01E

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-17

Level (low/med): LOW Date Received: 11/03/00

% Solids: 78.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24600			P
7440-36-0	Antimony	1.2	B	N	P
7440-38-2	Arsenic	14.2		N*	P
7440-39-3	Barium	197			P
7440-41-7	Beryllium	0.76	B		P
7440-43-9	Cadmium	0.076	U		P
7440-70-2	Calcium	17600		*	P
7440-47-3	Chromium	127		N	P
7440-48-4	Cobalt	8.9	B		P
7440-50-8	Copper	39.9			P
7439-89-6	Iron	16800			P
7439-92-1	Lead	88.8		*	P
7439-95-4	Magnesium	6100			P
7439-96-5	Manganese	544		N*	P
7439-97-6	Mercury	0.13			CV
7440-02-0	Nickel	26.4		N*	P
7440-09-7	Potassium	1490			P
7782-49-2	Selenium	1.5		N	P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	349	B		P
7440-28-0	Thallium	7.1		N*	P
7440-62-2	Vanadium	70.1			P
7440-66-6	Zinc	217		N*	P
	Cyanide	0.41	B		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01W

b Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-18

Level (low/med): LOW Date Received: 11/03/00

% Solids: 78.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	448			P
7440-36-0	Antimony	0.83	B	N	P
7440-38-2	Arsenic	2.0	B	N*	P
7440-39-3	Barium	14.6	B		P
7440-41-7	Beryllium	0.049	U		P
7440-43-9	Cadmium	0.074	U		P
7440-70-2	Calcium	7600		*	P
7440-47-3	Chromium	24.2		N	P
7440-48-4	Cobalt	1.8	B		P
7440-50-8	Copper	18.1			P
7439-89-6	Iron	26500			P
7439-92-1	Lead	7.7		*	P
7439-95-4	Magnesium	875	B		P
7439-96-5	Manganese	113		N*	P
7439-97-6	Mercury	0.092	B		CV
7440-02-0	Nickel	24.9		N*	P
7440-09-7	Potassium	95.5	B		P
7782-49-2	Selenium	9.6		N	P
7440-22-4	Silver	0.15	B		P
7440-23-5	Sodium	246	B		P
7440-28-0	Thallium	14.9		N*	P
7440-62-2	Vanadium	334			P
7440-66-6	Zinc	33.8		N*	P
	Cyanide	2.8			CA

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01X

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-19

Level (low/med): LOW Date Received: 11/03/00

% Solids: 75.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11000			P
7440-36-0	Antimony	0.57	U	N	P
7440-38-2	Arsenic	6.1		N*	P
7440-39-3	Barium	317			P
7440-41-7	Beryllium	0.63	B		P
7440-43-9	Cadmium	0.074	U		P
7440-70-2	Calcium	3680		*	P
7440-47-3	Chromium	16.7		N	P
7440-48-4	Cobalt	6.5	B		P
7440-50-8	Copper	19.8			P
7439-89-6	Iron	17800			P
7439-92-1	Lead	13.4		*	P
7439-95-4	Magnesium	3720			P
7439-96-5	Manganese	436		N*	P
7439-97-6	Mercury	0.11	B		CV
7440-02-0	Nickel	20.8		N*	P
7440-09-7	Potassium	1250			P
7782-49-2	Selenium	1.1	U	N	P
7440-22-4	Silver	0.099	U		P
7440-23-5	Sodium	328	B		P
7440-28-0	Thallium	10.3		N*	P
7440-62-2	Vanadium	27.5			P
7440-66-6	Zinc	62.2		N*	P
	Cyanide	0.059	U		CA

Color Before: GRAY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01Y

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-20

Level (low/med): LOW Date Received: 11/03/00

% Solids: 76.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8240			P
7440-36-0	Antimony	1.0	B	N	P
7440-38-2	Arsenic	9.1		N*	P
7440-39-3	Barium	155			P
7440-41-7	Beryllium	0.46	B		P
7440-43-9	Cadmium	0.079	U		P
7440-70-2	Calcium	15900		*	P
7440-47-3	Chromium	76.6		N	P
7440-48-4	Cobalt	32.0			P
7440-50-8	Copper	57.5			P
7439-89-6	Iron	19800			P
7439-92-1	Lead	84.1		*	P
7439-95-4	Magnesium	3160			P
7439-96-5	Manganese	316		N*	P
7439-97-6	Mercury	0.21			CV
7440-02-0	Nickel	65.4		N*	P
7440-09-7	Potassium	874	B		P
7782-49-2	Selenium	1.7		N	P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	494	B		P
7440-28-0	Thallium	11.6		N*	P
7440-62-2	Vanadium	53.5			P
7440-66-6	Zinc	95.9		N*	P
	Cyanide	3.5			CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01Y

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Matrix (soil/water): SOIL Lab Sample ID: MEE01B-20

Level (low/med): LOW Date Received: 11/03/00

% Solids: 76.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8240			P
7440-36-0	Antimony	1.0	B	N	P
7440-38-2	Arsenic	9.1		N*	P
7440-39-3	Barium	155			P
7440-41-7	Beryllium	0.46	B		P
7440-43-9	Cadmium	0.079	U		P
7440-70-2	Calcium	15900		*	P
7440-47-3	Chromium	76.6		N	P
7440-48-4	Cobalt	32.0			P
7440-50-8	Copper	57.5			P
7439-89-6	Iron	19800			P
7439-92-1	Lead	84.1		*	P
7439-95-4	Magnesium	3160			P
7439-96-5	Manganese	316		N*	P
7439-97-6	Mercury	0.21			CV
7440-02-0	Nickel	65.4		N*	P
7440-09-7	Potassium	874	B		P
7782-49-2	Selenium	1.7		N	P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	494	B		P
7440-28-0	Thallium	11.6		N*	P
7440-62-2	Vanadium	53.5			P
7440-66-6	Zinc	95.9		N*	P
	Cyanide	3.5			CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

BLANKS

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01B

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	27.1	U	42.6	B	27.1	U	27.1	U	5.420	U	P
Antimony	2.3	U	2.3	U	2.3	U	2.3	U	0.460	U	P
Arsenic	3.4	U	3.6	B	3.4	U	3.4	U	0.680	U	P
Barium	0.1	U	0.4	B	0.3	B	0.2	B	0.133	B	P
Beryllium	0.2	U	0.2	B	0.2	U	0.2	U	0.040	U	P
Cadmium	0.3	U	0.5	B	0.4	B	0.3	U	0.060	U	P
Calcium	-58.9	B	25.0	U	-43.5	B	25.0	U	5.000	U	P
Chromium	-.6	B	0.6	U	0.6	U	0.6	U	0.120	U	P
Cobalt	0.6	U	0.6	U	0.6	U	0.6	U	0.120	U	P
Copper	0.9	U	1.1	B	1.3	B	1.6	B	0.826	B	P
Iron	10.6	U	21.1	B	10.6	U	28.6	B	10.067	B	P
Lead	-2.6	B	2.1	U	2.1	U	2.1	U	0.528	B	P
Magnesium	7.6	U	74.8	B	13.7	B	67.3	B	4.641	B	P
Manganese	0.1	U	0.4	B	0.4	B	0.2	B	0.492	B	P
Mercury	0.1	U	0.1	B	0.1	U	0.1	B	0.069	B	CV
Nickel	0.8	U	0.8	U	0.8	U	1.0	B	0.160	U	P
Potassium	23.0	U	23.0	U	23.0	U	23.0	U	7.180	B	P
Selenium	4.3	U	4.3	U	4.3	U	-4.7	B	0.860	U	P
Silver	0.4	U	0.4	U	0.4	U	0.4	U	0.080	U	P
Sodium	142.0	B	138.9	U	138.9	U	138.9	U	136.718	B	P
Thallium	5.7	U	5.7	U	5.7	U	5.7	U	1.140	U	P
Vanadium	0.7	U	0.7	U	0.7	U	0.7	U	0.140	U	P
Zinc	-4.4	B	-4.3	B	-4.3	B	-4.4	B	0.240	U	P
Cyanide	0.9	U	0.9	U	0.9	U	0.9	U	0.095	B	CA

BLANKS

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: _____ SDG NO.: MEE01B

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C		Preparation Blank	C		M
Aluminum			27.1	U	-29.3	B	27.6	B					P
Antimony			2.3	U	2.3	U	2.3	U					P
Arsenic			3.4	U	3.4	U	3.4	U					P
Barium			0.4	B	0.2	B	0.4	B					P
Beryllium			0.2	U	0.2	U	0.2	U					P
Cadmium			0.5	B	0.3	U	0.5	B					P
Calcium			26.4	B	-31.4	B	25.0	U					P
Chromium			0.6	U	0.6	U	0.6	U					P
Cobalt			0.6	U	0.6	U	0.6	U					P
Copper			1.9	B	1.6	B	1.7	B					P
Iron			32.6	B	10.6	U	36.0	B					P
Lead			2.1	U	2.1	U	2.1	U					P
Magnesium			83.1	B	10.3	B	73.4	B					P
Manganese			0.5	B	0.3	B	0.4	B					P
Mercury			0.1	U									CV
Nickel			0.8	U	0.8	U	0.8	U					P
Potassium			23.0	U	23.0	U	23.0	U					P
Selenium			4.3	U	4.3	U	4.3	U					P
Silver			0.4	U	0.4	U	0.4	U					P
Sodium			138.9	U	138.9	U	138.9	U					P
Thallium			5.7	U	5.7	U	5.7	U					P
Vanadium			0.7	U	0.7	U	0.7	U					P
Zinc			-4.1	B	-4.3	B	-4.2	B					P
Cyanide			0.9	U									CA

BLANKS

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: _____ SDG NO.: MEE01B

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			27.1	U	27.1	U					P
Antimony			2.3	U	2.4	B					P
Arsenic			3.4	U	3.4	U					P
Barium			0.2	B	0.2	B					P
Beryllium			0.2	U	0.2	U					P
Cadmium			0.3	U	0.3	B					P
Calcium			-42.8	B	-26.5	B					P
Chromium			0.6	U	0.6	U					P
Cobalt			0.6	U	0.6	U					P
Copper			1.1	B	1.7	B					P
Iron			10.6	U	17.0	B					P
Lead			2.1	U	2.1	U					P
Magnesium			9.6	B	41.8	B					P
Manganese			0.4	B	0.2	B					P
Nickel			0.8	U	0.8	U					P
Potassium			23.0	U	23.0	U					P
Selenium			4.3	U	4.3	U					P
Silver			0.4	U	0.4	B					P
Sodium			161.1	B	138.9	U					P
Thallium			5.7	U	5.7	U					P
Vanadium			0.7	U	0.7	U					P
Zinc			-4.4	B	-4.4	B					P

BLANKS

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: _____ SDG NO.: MEE01B

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C		Prepa-ration Blank	C		M
Aluminum	27.1	U	47.2	B	27.1	U	30.5	B					P
Antimony	2.3	U	2.3	U	2.3	U	2.3	U					P
Arsenic	-3.4	B	3.4	U	3.4	U	3.4	U					P
Barium	0.1	U	0.2	B	0.3	B	0.1	B					P
Beryllium	0.2	U	0.3	B	0.3	B	0.2	B					P
Cadmium	0.3	U	0.6	B	0.4	B	0.5	B					P
Calcium	-55.5	B	25.0	U	-40.5	B	-33.3	B					P
Chromium	0.6	U	0.6	U	0.6	U	0.6	U					P
Cobalt	0.6	U	0.6	U	0.6	U	0.6	U					P
Copper	0.9	U	0.9	U	0.9	U	0.9	U					P
Iron	-11.0	B	10.6	B	10.6	U	10.6	U					P
Lead	2.1	U	2.1	U	2.1	U	2.1	U					P
Magnesium	7.6	U	49.0	B	14.5	B	26.0	B					P
Manganese	0.1	U	0.2	B	0.4	B	0.2	B					P
Nickel	0.8	U	0.8	U	0.8	B	0.8	U					P
Potassium	23.0	U	23.0	U	23.0	U	23.0	U					P
Selenium	4.3	U	4.3	U	4.3	U	4.3	U					P
Silver	0.4	U	0.4	U	0.4	U	0.4	U					P
Sodium	138.9	U	138.9	U	138.9	U	138.9	U					P
Thallium	5.7	U	5.7	U	7.0	B	5.7	U					P
Vanadium	0.7	U	0.7	U	0.7	U	0.7	U					P
Zinc	-4.6	B	-4.2	B	-4.2	B	-4.3	B					P

ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01B

ICP ID Number: P3 ICS Source: INORGVEN

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000	494867	495172.8	99.0	490586	498887.8	99.8
Antimony	0	600	4	646.0	107.7	8	648.1	108.0
Arsenic	0	100	-1	105.8	105.8	-1	108.3	108.3
Barium	0	500	1	541.0	108.2	1	542.2	108.4
Beryllium	0	500	0	499.9	100.0	0	497.8	99.6
Cadmium	0	1000	-1	954.8	95.5	-1	947.3	94.7
Calcium	500000	500000	499963	502785.6	100.6	506708	497263.4	99.4
Chromium	0	500	-1	494.0	98.8	-1	490.3	98.1
Cobalt	0	500	2	512.2	102.4	1	509.3	101.9
Copper	0	500	3	516.1	103.2	3	522.4	104.5
Iron	200000	200000	197852	199969.9	100.0	198058	198758.8	99.4
Lead	0	50	0	51.8	103.6	-4	50.6	101.2
Magnesium	500000	500000	521603	527944.9	105.6	524060	525557.0	105.1
Manganese	0	500	3	511.8	102.4	-4	509.5	101.9
Nickel	0	1000	4	977.1	97.7	1	968.5	96.8
Potassium	0	0	5	16.2		7	-.9	
Selenium	0	50	1	51.1	102.2	-2	43.0	86.0
Silver	0	200	0	196.1	98.0	0	197.6	98.8
Sodium	0	0	282	205.3		242	94.1	
Thallium	0	100	-13	90.3	90.3	-15	86.7	86.7
Vanadium	0	500	4	518.1	103.6	4	515.1	103.0
Zinc	0	1000	17	1058.9	105.9	8	1050.6	105.1

ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01B

ICP ID Number: P3 ICS Source: INORGVEN

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000				486336	493837.9	98.8
Antimony	0	600				2	654.1	109.0
Arsenic	0	100				-6	102.8	102.8
Barium	0	500				1	547.1	109.4
Beryllium	0	500				0	505.7	101.1
Cadmium	0	1000				0	963.2	96.3
Calcium	500000	500000				511338	509484.0	101.9
Chromium	0	500				-1	499.5	99.9
Cobalt	0	500				1	517.2	103.4
Copper	0	500				3	516.8	103.4
Iron	200000	200000				198453	201111.0	100.6
Lead	0	50				-5	50.1	100.2
Magnesium	500000	500000				526798	533165.4	106.6
Manganese	0	500				-5	514.8	103.0
Nickel	0	1000				2	982.1	98.2
Potassium	0	0				12	10.9	
Selenium	0	50				5	52.6	105.2
Silver	0	200				0	196.1	98.0
Sodium	0	0				386	189.2	
Thallium	0	100				10	91.7	91.7
Vanadium	0	500				4	523.0	104.6
Zinc	0	1000				7	1063.1	106.3

ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01B

ICP ID Number: P3 ICS Source: INORGVEN

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000				489885	497236.1	99.4
Antimony	0	600				4	659.6	109.9
Arsenic	0	100				-6	103.6	103.6
Barium	0	500				1	554.8	111.0
Beryllium	0	500				0	509.1	101.8
Cadmium	0	1000				0	968.3	96.8
Calcium	500000	500000				511633	512657.4	102.5
Chromium	0	500				-1	502.5	100.5
Cobalt	0	500				1	520.4	104.1
Copper	0	500				4	530.6	106.1
Iron	200000	200000				199376	202384.2	101.2
Lead	0	50				-4	47.7	95.4
Magnesium	500000	500000				527718	535674.7	107.1
Manganese	0	500				-5	516.5	103.3
Nickel	0	1000				2	989.9	99.0
Potassium	0	0				9	13.9	
Selenium	0	50				-6	47.4	94.8
Silver	0	200				0	198.1	99.0
Sodium	0	0				264	154.6	
Thallium	0	100				-17	94.7	94.7
Vanadium	0	500				3	527.3	105.5
Zinc	0	1000				7	1067.6	106.8

ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01B

ICP ID Number: P3 ICS Source: INORGVEN

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000				489034	498043.0	99.6
Antimony	0	600				5	667.8	111.3
Arsenic	0	100				-9	107.4	107.4
Barium	0	500				1	558.2	111.6
Beryllium	0	500				0	509.7	101.9
Cadmium	0	1000				0	969.5	96.9
Calcium	500000	500000				514131	512617.3	102.5
Chromium	0	500				-1	503.6	100.7
Cobalt	0	500				1	519.4	103.9
Copper	0	500				3	529.4	105.9
Iron	200000	200000				200149	202639.0	101.3
Lead	0	50				-5	50.7	101.4
Magnesium	500000	500000				530445	537058.2	107.4
Manganese	0	500				-5	517.4	103.5
Nickel	0	1000				1	990.8	99.1
Potassium	0	0				9	5.6	
Selenium	0	50				-1	53.9	107.8
Silver	0	200				0	197.8	98.9
Sodium	0	0				388	96.0	
Thallium	0	100				-7	88.9	88.9
Vanadium	0	500				3	528.8	105.8
Zinc	0	1000				7	1071.0	107.1

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEE01YS

Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: _____ SDG NO.: MEE01B

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 76.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75 - 125	64.2937		1.0359	B	131.06	48.3	N	P
Arsenic	75 - 125	13.4093		9.1352		10.48	40.8	N	P
Barium	75 - 125	623.1259		155.3142		524.25	89.2		P
Beryllium	75 - 125	12.9725		0.4582	B	13.11	95.4		P
Cadmium	75 - 125	12.3921		0.0786	U	13.11	94.5		P
Chromium	75 - 125	94.9030		76.5695		52.42	35.0	N	P
Cobalt	75 - 125	142.2970		32.0203		131.06	84.1		P
Copper	75 - 125	125.6978		57.4698		65.53	104.1		P
Lead		66.8349		84.1419		5.24	-330.3		P
Manganese	75 - 125	306.4147		315.9874		131.06	-7.3	N	P
Mercury	75 - 125	0.8257		0.2058		0.66	93.9		CV
Nickel	75 - 125	153.4172		65.4451		131.06	67.1	N	P
Selenium	75 - 125	2.8204		1.6804		2.62	43.5	N	P
Silver	75 - 125	12.6526		0.1048	U	13.11	96.5		P
Thallium	75 - 125	20.0878		11.6403		13.11	64.4	N	P
Vanadium	75 - 125	153.7563		53.5248		131.06	76.5		P
Zinc	75 - 125	179.1289		95.9355		131.06	63.5	N	P
Cyanide	75 - 125	10.3758		3.4681		6.55	105.5		CA

Comments: _____

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEE01YA

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01B

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Antimony		121.00		3.95	B	120.0	97.5		P
Arsenic		93.62		34.85		70.0	84.0		P
Chromium		836.67		292.11		600.0	90.8		P
Manganese		3306.56		1205.49		2400.0	87.5		P
Nickel		703.51		249.67		500.0	90.8		P
Selenium		17.66		6.41		13.0	86.5		P
Thallium		119.28		44.41		88.0	85.1		P
Zinc		1044.33		365.99		730.0	92.9		P

Comments:

DUPLICATES

EPA SAMPLE NO.

MEE01YD

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01B

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 76.3 % Solids for Duplicate: 77.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		8236.9229		6999.7515		16.2		P
Antimony		1.0359	B	0.8407	B	20.8		P
Arsenic	2.6	9.1353		5.1816		55.2	*	P
Barium	52.4	155.3142		105.9816		37.8		P
Beryllium		0.4582	B	0.3190	B	35.8		P
Cadmium		0.0786	U	0.0932	B	200.0		P
Calcium		15877.0088		85426.2656		137.3	*	P
Chromium		76.5695		79.5300		3.8		P
Cobalt	13.1	32.0203		22.1568		36.4		P
Copper		57.4698		65.1452		12.5		P
Cyanide		3.4681		3.4500		0.5		CA
Iron		19852.1641		16577.5059		18.0		P
Lead		84.1419		49.3824		52.1	*	P
Magnesium	1310.6	3158.3250		1997.8429		45.0		P
Manganese		315.9874		462.7620		37.7	*	P
Mercury	0.1	0.2058		0.2763		29.2		CV
Nickel	10.5	65.4451		35.2540		60.0	*	P
Potassium		873.8702	B	728.1387	B	18.2		P
Selenium	1.3	1.6804		1.1271	U	200.0		P
Silver		0.1048	U	0.1048	U			P
Sodium		494.2994	B	331.3505	B	39.5		P
Thallium	2.6	11.6403		8.2909		33.6	*	P
Vanadium	13.1	53.5248		43.4661		20.7		P
Zinc		95.9355		65.4799		37.7	*	P

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: _____ SDG NO.: MEE01E

ICP ID Number: P3 Date: 10/15/00

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200	27.1	P
Antimony	206.84		60	2.3	P
Arsenic	189.04		10	3.4	P
Barium	493.41		200	0.1	P
Beryllium	313.04		5	0.2	P
Cadmium	226.50		5	0.3	P
Calcium	317.93		5000	25.0	P
Chromium	267.72		10	0.6	P
Cobalt	228.62		50	0.6	P
Copper	324.70		25	0.9	P
Iron	271.44		100	10.6	P
Lead	220.35		3	2.1	P
Magnesium	279.08		5000	7.6	P
Manganese	257.61		15	0.1	P
Nickel	231.60		40	0.8	P
Potassium	766.49		5000	23.0	P
Selenium	196.03		5	4.3	P
Silver	328.07		10	0.4	P
Sodium	330.23		5000	138.9	P
Thallium	190.86		10	5.7	P
Vanadium	292.40		50	0.7	P
Zinc	213.86		20	1.2	P

Comments: _____

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01B

ICP ID Number: Date: 10/15/00

Flame AA ID Number: V2

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Mercury	253.70		0.2	0.1	CV

Comments:

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01B

ICP ID Number: Date: 10/15/00

Flame AA ID Number: C2

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Cyanide			10	0.9	CA

Comments:

PREPARATION LOG

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01B

Method: P

EPA Sample No.	Preparation Date	Weight (grams)	Volume (mL)
LCSS	11/08/00	1.00	200
MEE01B	11/08/00	1.06	200
MEE01C	11/08/00	1.06	200
MEE01D	11/08/00	1.03	200
MEE01E	11/08/00	1.01	200
MEE01F	11/08/00	1.01	200
MEE01G	11/08/00	1.07	200
MEE01H	11/08/00	1.08	200
MEE01J	11/08/00	1.01	200
MEE01K	11/08/00	1.07	200
MEE01L	11/08/00	1.02	200
MEE01M	11/08/00	1.06	200
MEE01N	11/08/00	1.02	200
MEE01P	11/08/00	1.01	200
MEE01Q	11/08/00	1.01	200
MEE01R	11/08/00	1.01	200
MEE01S	11/08/00	1.02	200
MEE01T	11/08/00	1.01	200
MEE01W	11/08/00	1.03	200
MEE01X	11/08/00	1.08	200
MEE01Y	11/08/00	1.00	200
MEE01YD	11/08/00	1.00	200
MEE01YS	11/08/00	1.00	200
PBS	11/08/00	1.00	200

PREPARATION LOG

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01B

Method: CV

EPA Sample No.	Preparation Date	Weight (grams)	Volume (mL)
LCSS	11/17/00	0.20	100
MEE01B	11/17/00	0.20	100
MEE01C	11/17/00	0.25	100
MEE01D	11/17/00	0.22	100
MEE01E	11/17/00	0.20	100
MEE01F	11/17/00	0.23	100
MEE01G	11/17/00	0.22	100
MEE01H	11/17/00	0.23	100
MEE01J	11/17/00	0.20	100
MEE01K	11/17/00	0.20	100
MEE01L	11/17/00	0.23	100
MEE01M	11/17/00	0.22	100
MEE01N	11/17/00	0.22	100
MEE01P	11/17/00	0.26	100
MEE01Q	11/17/00	0.21	100
MEE01R	11/17/00	0.22	100
MEE01S	11/17/00	0.26	100
MEE01T	11/17/00	0.22	100
MEE01W	11/17/00	0.22	100
MEE01X	11/17/00	0.20	100
MEE01Y	11/17/00	0.20	100
MEE01YD	11/17/00	0.20	100
MEE01YS	11/17/00	0.20	100
PBS	11/17/00	0.20	100

PREPARATION LOG

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01B

Method: CA

EPA Sample No.	Preparation Date	Weight (grams)	Volume (mL)
LCSS	11/07/00	1.00	50
MEE01B	11/07/00	1.01	50
MEE01C	11/07/00	1.00	50
MEE01D	11/07/00	1.00	50
MEE01E	11/07/00	1.05	50
MEE01F	11/07/00	1.04	50
MEE01G	11/07/00	1.03	50
MEE01H	11/07/00	1.03	50
MEE01J	11/07/00	1.02	50
MEE01K	11/07/00	1.00	50
MEE01L	11/07/00	1.02	50
MEE01M	11/07/00	1.01	50
MEE01N	11/07/00	1.05	50
MEE01P	11/07/00	1.02	50
MEE01Q	11/07/00	1.02	50
MEE01R	11/07/00	1.02	50
MEE01S	11/07/00	1.05	50
MEE01T	11/07/00	1.05	50
MEE01W	11/07/00	1.03	50
MEE01X	11/07/00	1.01	50
MEE01Y	11/07/00	1.00	50
MEE01YD	11/07/00	1.00	50
MEE01YS	11/07/00	1.00	50
PBS	11/07/00	1.00	50

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Instrument ID Number: P3 Method: P

Start Date: 11/09/00 End Date: 11/09/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
SO	1.00	0945		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S	1.00	0952							X		X		X		X				X		X	X		X		X	
S	1.00	0959		X						X				X		X											
S	1.00	1004				X	X	X				X					X								X		
S	1.00	1010																		X			X				
S	1.00	1015			X																						
ICV	1.00	1021		X			X	X	X	X	X	X	X	X		X	X		X	X			X		X	X	
ICV	1.00	1028																									
ICV	1.00	1041			X	X									X						X	X		X			
ICB	1.00	1048		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRI	1.00	1055			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	1108		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	1121		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1128		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1135		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1144																									
ZZZZZZ	1.00	1152																									
ZZZZZZ	1.00	1159																									
ZZZZZZ	1.00	1206																									
ZZZZZZ	1.00	1213																									
ZZZZZZ	1.00	1220																									
ZZZZZZ	1.00	1228																									
ZZZZZZ	1.00	1235																									
ZZZZZZ	1.00	1242																									
ZZZZZZ	1.00	1249																									
CCV	1.00	1256		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1303		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1314																									
ZZZZZZ	1.00	1321																									
CRI	1.00	1328			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	1335		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	1345		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1352		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Instrument ID Number: P3 Method: P

Start Date: 11/09/00 End Date: 11/09/00

EPA Sample No.	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	1359		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1416																									
ZZZZZZ	1.00	1423																									
ZZZZZZ	1.00	1430																									
ZZZZZZ	1.00	1437																									
ZZZZZZ	1.00	1445																									
ZZZZZZ	1.00	1452																									
ZZZZZZ	1.00	1459																									
CRI	1.00	1506			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	1514		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	1523		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1530		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1537		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1547																									
ZZZZZZ	1.00	1555																									
ZZZZZZ	1.00	1602																									
ZZZZZZ	1.00	1609																									
ZZZZZZ	1.00	1616																									
PBS	1.00	1624		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCSS	1.00	1631		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01Y	1.00	1638		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01YS	1.00	1645			X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MEE01YD	1.00	1655		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1702		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1709		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01YL	5.00	1716		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01YA	1.00	1723			X																						
MEE01B	1.00	1730		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01C	1.00	1738		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01D	1.00	1745		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01E	1.00	1752		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01F	1.00	1759		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRI	1.00	1806			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Instrument ID Number: P3 Method: P

Start Date: 11/09/00 End Date: 11/09/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICSA	1.00	1814		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	1821		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1828		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1835		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01G	1.00	1842		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01H	1.00	1849		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01J	1.00	1857		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01K	1.00	1904		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01L	1.00	1911		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01M	1.00	1918		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01N	1.00	1925		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01P	1.00	1933		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01Q	1.00	1940		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01R	1.00	1947		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1954		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	2001		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01S	1.00	2008		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01T	1.00	2016		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01W	1.00	2023		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MEE01X	1.00	2030		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	2037																									
ZZZZZZ	1.00	2044																									
ZZZZZZ	1.00	2052																									
CRI	1.00	2059			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	2106		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	2113		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	2120		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	2128		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Instrument ID Number: P3 Method: P

Start Date: 11/10/00 End Date: 11/10/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1126		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S	1.00	1133							X		X		X		X				X		X	X		X		X	
S	1.00	1140		X						X				X		X											
S	1.00	1145				X	X	X				X					X								X		
S	1.00	1151																		X			X				
S	1.00	1156			X																						
ICV	1.00	1202		X			X	X	X	X	X	X	X	X		X	X		X	X			X		X	X	
ICV	1.00	1209																									
ICV	1.00	1216			X	X									X						X	X		X			
ICB	1.00	1224		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRI	1.00	1231			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	1250		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	1257		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1304		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1311		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1321																									
ZZZZZZ	1.00	1328																									
ZZZZZZ	1.00	1335																									
ZZZZZZ	1.00	1342																									
ZZZZZZ	1.00	1350																									
ZZZZZZ	1.00	1357																									
ZZZZZZ	1.00	1404																									
ZZZZZZ	1.00	1411																									
ZZZZZZ	1.00	1418																									
ZZZZZZ	1.00	1426																									
CCV	1.00	1433		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1440		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1454																									
ZZZZZZ	1.00	1501																									
ZZZZZZ	1.00	1508																									
ZZZZZZ	1.00	1515																									
ZZZZZZ	1.00	1522																									
MEE01YA	1.00	1529				X					X						X		X		X			X		X	

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Instrument ID Number: P3 Method: P

Start Date: 11/10/00 End Date: 11/10/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1537																									
CRI	1.00	1544			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	1557		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	1607		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1615		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1622		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Instrument ID Number: V2 Method: CV

Start Date: 11/17/00 End Date: 11/17/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1349																X									
S0.2	1.00	1351																X									
S0.5	1.00	1354																X									
S1	1.00	1356																X									
S5	1.00	1358																X									
S10	1.00	1401																X									
ICV	1.00	1403																X									
ICB	1.00	1406																X									
CRA	1.00	1408																X									
CCV	1.00	1410																X									
CCB	1.00	1413																X									
PBS	1.00	1415																X									
LCSS	1.00	1417																X									
MEE01Y	1.00	1420																X									
MEE01YD	1.00	1422																X									
MEE01YS	1.00	1424																X									
MEE01B	1.00	1427																X									
MEE01C	1.00	1429																X									
MEE01D	1.00	1431																X									
MEE01E	1.00	1433																X									
MEE01F	1.00	1436																X									
CCV	1.00	1438																X									
CCB	1.00	1440																X									
MEE01G	1.00	1443																X									
MEE01H	1.00	1445																X									
MEE01J	1.00	1447																X									
MEE01K	1.00	1450																X									
MEE01L	1.00	1452																X									
MEE01M	1.00	1454																X									
MEE01N	1.00	1457																X									
MEE01P	1.00	1459																X									
MEE01Q	1.00	1501																X									
MEE01R	1.00	1504																X									

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Instrument ID Number: V2 Method: CV

Start Date: 11/17/00 End Date: 11/17/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.00	1506																X									
CCB	1.00	1508																X									
MEE01S	1.00	1511																X									
MEE01T	1.00	1513																X									
MEE01W	1.00	1515																X									
MEE01X	1.00	1518																X									
ZZZZZZ	1.00	1520																									
ZZZZZZ	1.00	1522																									
ZZZZZZ	1.00	1525																									
ZZZZZZ	1.00	1527																									
ZZZZZZ	1.00	1529																									
ZZZZZZ	1.00	1532																									
CCV	1.00	1534																X									
CCB	1.00	1536																X									

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Instrument ID Number: C2 Method: CA

Start Date: 11/08/00 End Date: 11/08/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S200	1.00	1603																									X
S100	1.00	1604																									X
S50	1.00	1604																									X
S20	1.00	1605																									X
S10	1.00	1606																									X
S0	1.00	1607																									X
ICV	1.00	1609																									X
ICB	1.00	1610																									X
CCV	1.00	1610																									X
CCB	1.00	1611																									X
ZZZZZZ	1.00	1612																									
PBS	1.00	1613																									X
LCSS	1.00	1613																									X
MEE01Y	1.00	1614																									X
MEE01YS	1.00	1615																									X
MEE01YD	1.00	1616																									X
MEE01B	1.00	1616																									X
MEE01C	1.00	1617																									X
MEE01D	1.00	1618																									X
MEE01E	1.00	1619																									X
CCV	1.00	1619																									X
CCB	1.00	1620																									X
MEE01F	1.00	1621																									X
MEE01G	1.00	1622																									X
MEE01H	1.00	1623																									X
MEE01J	1.00	1623																									X
MEE01K	1.00	1624																									X
MEE01L	1.00	1625																									X
MEE01M	1.00	1626																									X
MEE01N	1.00	1626																									X
MEE01P	1.00	1627																									X
MEE01Q	1.00	1628																									X
CCV	1.00	1629																									X

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01B

Instrument ID Number: C2 Method: CA

Start Date: 11/08/00 End Date: 11/08/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	1629																									X
MEE01R	1.00	1630																									X
MEE01S	1.00	1631																									X
MEE01T	1.00	1632																									X
MEE01W	1.00	1632																									X
MEE01X	1.00	1633																									X
ZZZZZZ	1.00	1634																									
ZZZZZZ	1.00	1635																									
ZZZZZZ	1.00	1635																									
CCV	1.00	1636																									X
CCB	1.00	1637																									X

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: MEE01B CERCLIS No: IL5041869023

Case No: 28678 Site Name/Location: Clark Oil

Contractor or EPA Lab: ComPuCHem Data User: IEPA

No. of Samples: 20 Date Sampled or Date Received: 11-22-00

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 20 No. of samples received: 20

Received by: Eula M. Dixon / ESAT Date: 11-22-00

Received by LSSS: Eula M. Dixon / ESAT Date: 11-22-00

Review started: 12-7-2000 Reviewer Signature: J Gary

Total time spent on review: 14 +2.5 Date review completed: 12-12-2000 12-13-00

Copied by: Eula M. Dixon / ESAT Date: 12-14-00

Mailed to user by: Eula M. Dixon / ESAT Date: 12-14-00

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

_____

_____

Received by Data Mgmt. Coordinator for Files. Date: _____

DATE: December 21, 2000

TO: IEPA
1021 North Grand Avenue East
Springfield, IL 62702

Attn: Bob Casper

SITE NAME: CLARK OIL

CASE NO	LAB	NO # OF SAMPLES	SDG	MATRIX
28678	COMPUCHEM	4	MEE01Z	SOIL

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
CHICAGO, IL 60605

Sent By: Eva M. Dixon, ESAT

RECEIVED
DEC 27 2000
IEPA-BOL-FSRS

DEC 2 1 2000

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: _____

SUBJECT: Review of Data
Received for Review on November 22, 2000

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

Site name: Clark Oil (IL)

Case number: 28678 SDG NUMBER: MEE01Z

Number and Type of Samples: 4 soil samples

Sample Numbers: MEE01Z, MEE020, MEE021, MEE022

Laboratory: Compuchem Hrs. for Review: 4 +1

Following are our findings:

CC: Cecilia Luckett
Region 5 TPO
Mail Code: SM-5J

Case Number: 28678
Site Name: Clark Oil (IL)

SDG Number: MEE01Z
Laboratory: Compuchem

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Four soil samples, numbered MEE01Z, MEE020, MEE021, MEE022 were collected on 11/02/2000. The lab received the samples on 11/03/2000. The temperature of the sample cooler was 8 degrees C upon receipt. All samples were analyzed for metals and Cyanide. All samples were analyzed using CLP SOW ILM04.0 analysis procedure.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

Case Number: 28678
Site Name: Clark Oil (IL)

SDG Number: MEE01Z
Laboratory: Compuchem

1. HOLDING TIME:

HOLDING TIME CRITERIA

Inorganic

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	0	2.0	0.0
Mercury	28	0	2.0	0.0
Cyanide	14	0	12.0	0.0

DC-280: The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

MEE01Z, MEE020, MEE021, MEE022

2. CALIBRATIONS:

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85.00	115.00	70.00	130.00
AA	90.00	110.00	75.00	125.00
ICP	90.00	110.00	75.00	125.00
Mercury	80.00	120.00	65.00	135.00

No problems were found for this qualification.

3. BLANKS:

LABORATORY BLANKS CRITERIA

The following inorganic samples are associated with a negative blank concentration whose absolute value is greater than the instrument detection limit (IDL). The sample concentration is greater than the IDL and less than

Case Number: 28678
Site Name: Clark Oil (IL)

SDG Number: MEE01Z
Laboratory: Compuchem

five times the absolute value of the blank concentration. Hits are qualified "J".

Cadmium
MEE022

DC-284: The following inorganic samples are associated with a blank concentration which is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the blank concentration. Hits are qualified "J"; non-detects are not flagged.

Arsenic
MEE022

Cadmium
MEE022

Beryllium
MEE01Z, MEE020, MEE021

Mercury
MEE01Z, MEE020, MEE021, MEE022

Sodium
MEE01Z, MEE020, MEE021, MEE022

DC-338: During review of the following inorganic samples, the reported IDL/default CRDL value was used for cyanide.

MEE01Z, MEE020, MEE021, MEE022

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits

Upper	125.0
Lower	75.0
Extreme lower	30.0

DC-268: The following inorganic samples are associated with a matrix spike recovery which is low (30-74 %) indicating that sample results may be biased low. Hits are qualified "J" and non-detects are qualified "UJ".

Antimony
MEE01Z, MEE020, MEE021, MEE022

Selenium
MEE01Z, MEE020, MEE021, MEE022

5. LABORATORY AND FIELD DUPLICATE

No problems were found for this qualification.

6. ICP ANALYSIS

No problems were found for this qualification.

7. GFAA ANALYSIS

NA

8. SAMPLE RESULTS

The following inorganic samples are associated with an ICP duplicate injection percent RSD which is greater than 20% and the sample results are reported above the CRDL. The data must be qualified using professional judgement. All associated data are estimated "J".

Thallium
MEE01Z, MEE021, MEE022

Arsenic
MEE022

Negative Thallium concentration values less than the negative CRDL were obtained for the interference check "A" sample (ICSA). Although the negative bias was not completely consistent, indication of interference is present and hits are qualified "J".

Thallium
MEE022

All data, except those qualified above, are acceptable.

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #: 28678 SDG : MEE01Z
Site : CLARK OIL
Lab : Compuchem
Reviewer : S. Tobin
Date : 12/19/2000

Number of Soil Samples : 4
Number of Water Samples : 0

Sample Number :	MEE01Z		MEE020		MEE021		MEE022			
Sampling Location :	X121		X122		X123		X124			
Matrix	Soil		Soil		Soil		Soil			
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg			
Date Sampled :	11/02/2000		11/02/2000		11/02/2000		11/02/2000			
Time Sampled :	15:50		16:50		16:55		17:10			
%Solids :	88.0		83.2		95.2		74.8			
Dilution Factor :	1.0		1.0		1.0		1.0			
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	3950		5200		1630		5620			
ANTIMONY	0.52	UJ	0.53	UJ	0.45	UJ	0.58	UJ		
ARSENIC	0.77	U	0.78	U	0.66	U	4.0	J		
BARIUM	40.6		56.5		26.6		125			
BERYLLIUM	0.17	J	0.24	J	0.090	J	0.59			
CADMIUM	0.070	U	0.070	U	0.060	U	0.43	J		
CALCIUM	879		2320		556		149000			
CHROMIUM	6.9		9.3		5.7		47.1			
COBALT	2.9		3.6		3.0		7.1			
COPPER	7.3		9.9		4.0		45.1			
IRON	4690		7740		3480		12500			
LEAD	4.3		7.4		2.7		73.7			
MAGNESIUM	972		1400		633		7220			
MANGANESE	30.6		228		34.9		418			
MERCURY	0.090	J	0.10	J	0.070	J	0.16	J		
NICKEL	7.9		10.8		8.1		19.8			
POTASSIUM	372		643		140		1180			
SELENIUM	0.98	UJ	0.98	UJ	0.84	UJ	1.1	UJ		
SILVER	0.090	U	0.090	U	0.080	U	0.10	U		
SODIUM	207	J	344	J	167	J	353	J		
THALLIUM	3.3	J	5.3		2.0	J	3.0	J		
VANADIUM	12.2		12.0		10.4		25.2			
ZINC	16.3		27.6		10.2		427			
CYANIDE	0.050	U	0.050	U	0.050	U	0.060	U		

QC EXCEPTION SUMMARY REPORT

ASE\SAS#: 28678 SITE: Clark 01 MATRIX: Soil WATER SAMPLE SPK: NA

ATA SET: MEE01Z LAB: Compuchem CONC: 100 WATER SAMPLE DUP: NA

AB QC # MEE01Z REVIEWED BY: Stephanie Tobin SOIL SAMPLE SPK: MEE01Z

ATE: 12-15-00 SOIL SAMPLE DUP: MEE01Z

FORM #		FORM 2	FORM 2	FORM 3	FORM 3	FORM 3	FORM 4	FORM 5	FORM 6	FORM 7	FORM 7	FORM 9	FORM 9	FORM 6	FORM 5	FIELD	FIELD	FIELD	FIELD	COMMENTS
ELEMENT	HOLD TIME 11/02	INITIAL CALIB	CONTIN CALIB	CALIB BLANK	PREP WATER BLANK	PREP SOIL BLANK	ICS %R	SOIL SPIKE %R	SOIL DUP RPD	ICS AQ	ICS SOIL	SERIAL DILUTION AQUEOUS	SERIAL DILUTION SOIL	AQ DUP %R	AQ SPIKE %R	BLANK	DUP RPD	BLANK	DUP RPD	
ALUMINUM	ok	ok	ok	42.6/30.5	NA			62.2	ok	NA	ok	NA	ok	NA	NA	NA	NA			
ANTIMONY				3.0																
ARSENIC				3.6			-1,-1,-6,-6													
BARIUM				.7		0.142														
BERYLLIUM				.2																
CADMIUM				.5		-.072														
CALCIUM				-58.4/26.4																
CHROMIUM				-.6																
COBALT																				
COPPER				2.0		.290														
IRON				36.0		5.918														
LEAD				-2.6			0,-4,-5,-4													
MAGNESIUM				23.1		4.453														
MANGANESE				.5		0.170														
MERCURY				.2		0.089														
NICKEL				1.0																
POTASSIUM						7.313														
SELENIUM				-4.7			1,-2,5,7	63.1												
SILVER				.4																
SODIUM				161.1		133.029														
THALLIUM							-13,-15,10,-17													
TIN																				
VANADIUM																				
ZINC				-4.4		-.245														
CYANIDE																				

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

SDG NARRATIVE
CASE # 28678 SDG # MEE01Z
CONTRACT # 68W00082

The indicated Sample Delivery Group (SDG) consisting of four (4) soil samples was received into the laboratory information management system (LIMS) on November 3, 2000 intact and in good condition with Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were analyzed, in accordance with EPA CLP Statement of Work (SOW) document ILM04.1 for the complete Inorganic Target Analyte List (TAL).

The correlation coefficients for the mercury and cyanide analytical runs are confirmed to be $\geq$ 0.9950.

The cooler temperature indicator bottle was not found with the samples received November 3, 2000 and sample temperature was 8 degrees Celsius.

E-mail: Two SDGs - MEE01B (20 sample) and MEE01Z (4 sample), no QC was provided on Traffic Report. MEE01Y and MEE01Z were chosen, respectively.

EQUATIONS FOR SOLID SAMPLE CALCULATIQNS:

Client sample MEE01Z is used for illustration.
Any sample result that is $\leq$ the instrument detection limit (IDL) will be entered at the IDL for that analyte.
ICP Equation:
Equation for obtaining metals sample results in mg/Kg as presented on FORM I data sheets from ICP instrument acquired results in ug/L (ppb).

$$\text{Concentration (\% solids) (mg/Kg)} \quad \frac{C \times D \times V}{W \times S}$$

Where
C = concentration (ug/L)
D = dilution factor
V = final volume in liters after sample preparation
W = weight in grams of wet sample
S = % solids/100

Example: aluminum result ug/L to mg/Kg.

$$\frac{17389.54 \text{ ug/L (C)} \times 1 \text{ (D)} \times 0.2 \text{ L (V)}}{1.0 \text{ g (W)} \times 0.880 \text{ (S)}} = 3952 \text{ mg/Kg reported as } 3950 \text{ mg/Kg}$$

Mercury Equation:
Equation for obtaining mercury sample results in mg/Kg as presented on FORM I data sheets from instrument acquired results in ug/L (ppb).

$$\frac{A \times D \times F}{}$$

B x E

Where

A = ug/L Hg

B = wet weight of sample

D = dilution factor to bring sample into analysis range

E = % solids/100

F = final volume in liters (0.1 L)

Example: mercury result ug/L to mg/Kg

$$\frac{0.1566 \text{ ug/L (A)} \times 1 \text{ (D)} \times 0.1 \text{ (F)}}{0.2 \text{ g (B)} \times 0.880 \text{ (E)}} = 0.0889 \text{ mg/Kg reported as } 0.089 \text{ mg/Kg}$$

Cyanide Equation:

Equation for obtaining cyanide sample results in mg/Kg as presented on FORM I data sheets from instrument acquired results in ug/L (ppb).

$$\frac{A \times D \times F}{B \times E}$$

Where

A = ug/L CN

B = wet weight of sample

D = dilution factor to bring sample into analysis range

E = % solids/100

F = final volume in liters (0 05 L)

Example: cyanide result ug/L to mg/Kg

$$\frac{0.90 \text{ ug/L* (A)} \times 1 \text{ (D)} \times 0.05 \text{ L (F)}}{1.0\text{g (B)} \times 0.880 \text{ (E)}} = 0.0511 \text{ mg/Kg reported as } 0.051 \text{ mg/Kg*}$$

* The result is reported down to the instrument detection limit.

SAMPLE IDs:

The following customer IDs are associated with this SDG:

MEE01Z MEE020 MEE021 MEE022

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within EPA CLP allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSS & PBS) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

COMPUCHEM utilizes a soil Laboratory Control Sample (LCS) purchased from Environmental Resources Associates (ERA). With each lot of soil LCS material purchased, a certification document is included which provides Performance Acceptance Limits ™ (PAL ™). The limits are listed as guidelines for acceptable results and closely approximate the 95% confidence interval. As with any LCS, it is a QC measure used to demonstrate control and any results, which are outside the acceptance criteria, require corrective action up to and including redigesting and reanalyzing the entire sample preparation batch.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike, CCN = WG6744-1 (MEE01ZS) was found to be outside CLP control limits for antimony and selenium. The reported concentrations for these analytes are flagged with an "N" on all associated Form 1 and on Form 5a.

The sample matrix spike, CCN = WG6727-1 (MEE01ZS) was found to be inside CLP control limits for cyanide.

An "N" indicates a matrix-related interference in the sample preparation procedure &/or analysis for the flagged analyte. This is normally the consequence of a relatively high anionic content in the sample or (for some sediments) an inconsistent sample matrix relative to that analyte.

CLP control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

Post-digestion spikes are mandatory for analytes demonstrating unsatisfactory matrix spike recoveries during ICP analysis (excluding silver). The results of such spikes are presented on Form 5b.

Unsatisfactory recovery of post-digestion spikes of this type do not have bearing upon the aforementioned "N" flags, but may indicate interference during analysis &/or a solution matrix which is hostile to the analyte in question.

Satisfactory recovery of an analyte in a post-digestion spike of this type implies interference by the required preparation procedure or in the sample matrix itself. Lack of uniformity for an analyte in sediments will also result in satisfactory recovery of post-digestion spikes after failure in the related matrix spike.

The sample matrix duplicate, CCN = WG6744-2 (MEE01ZD) was inside CLP control limits for the requested ICP metals and mercury analytes.

The sample matrix duplicate, CCN = WG6727-2 (MEE01ZD) was inside CLP control limits for cyanide.

CLP control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = MEE01Z-1 (MEE01ZL) was performed in accordance with CLP requirements for ICP analysis.

The adjusted sample concentrations were inside CLP control limits for the requested analytes.

CLP control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution-adjusted concentrations from the original values for all analyte concentrations with values greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Thomas R. Cole
Data Reviewer II
November 16, 2000

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

DATA REPORTING QUALIFIERS FOR INORGANICS

On Form I, under the column labeled "C" for concentration qualifier and "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each analyte.

The C (concentration) qualifiers used are:

U: This flag indicates the analyte was analyzed for but not detected. This reported value was obtained from a reading that was less than the Instrument Detection Limit (IDL). The IDL will be adjusted to reflect any dilution and, for soils, the percent moisture.

B: This flag indicates the analyte was analyzed for and the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

The Q qualifiers used are:

E: This flag indicates an estimated value. This flag is used:

1. When the serial dilution (a five fold dilution for CLP and a five fold dilution for SW-846 method 6010B) results are not within 10%. The analyte concentration must be sufficiently high (minimally a factor of 50X above the IDL in the original sample).
2. When the analytical spike recovery associated with the sample is below 40% after two successive dilutions by Graphite Furnace Atomic Absorption (GFAA).

M: This flag applies to GFAA analyses for concentrations greater than the Contract Required Detection Limit (CRDL). This flag is only used for GFAA if the analytical sample or analytical spike duplicate injection reading is not within 20% of the Relative Standard Deviation (RSD).

N: This flag indicates the sample spike recovery is outside of control limits:

*: This flag is used for duplicate analysis when the sample and the sample duplicate results are not within control limits.

S: This flag applies to GFAA analyses to indicate the reported value was determined by the Method Of Standard Addition (MSA).

W: This flag applies to GFAA analyses when the post-digestion spike (analytical spike) is out of control limits (85% - 115%). while sample absorbance is less than 50% of "spike" absorbance ["spike" is defined as (absorbance or concentration of spike sample) minus (absorbance or concentration of the sample)].

+: This flag applies to GFAA analyses when the correlation coefficient for the MSA is less than 0.995 after two MSA analyses.

NOTE: Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

The extensions: *D, S, SD, L. A, added to the end of the client ID represent as follows:*

D: matrix duplicate
S: matrix spike
SD: matrix spike duplicate
L: serial dilution
A: post digestion spike

Method Codes:

P: ICP PLASMA
CV: MERCURY COLD VAPOR AA
CA: MIDI-DISTILLATION SPECTROPHOTOMETRIC
F: FURNACE AA

USEPA Contract Laboratory Program
Inorganic Traffic Report

9:25 AM

Case No. 28678
DAS No.
SDG No. MEE01B, MEE01Z

L

214

Date Shipped: 11/2/00
Carrier Name: Fed Ex
Airbill: 3497988056
Shipped to:
Liberty Analytical
501 Madison Avenue
Cary NC 27513
(919) 379-4080

Date Received/Received by: 11/3/00 MJS
Lab Contract No.: 10SW00082 Unit Price: $75.00

Transfer To:
Date Received/Received By:
Contract No.: Price:

Sampler (Signature): Mark Wagner 11/2/00

Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MEE01T	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	5-59665 (Ice Only) (1)	X117	11/02/2000 13:25	EE01T	Good
MEE01W	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	5-59669 (Ice Only) (1)	X118	11/02/2000 14:20	EE01W	
MEE01X	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	5-59673 (1)	X119	11/02/2000 14:35	EE01X	
MEE01Y	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	59677 (Ice Only) (1)	X120	11/02/2000 15:40	EE01Y	SDG Final Sample
MEE01Z ✓	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	59681 (Ice Only) (1)	X121	11/02/2000 15:50	EE01Z	
MEE020 ✓	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	59685 (Ice Only) (1)	X122	11/02/2000 16:50	EE020	
MEE021 ✓	Soil/Sediment	L/G	CN (21), TM (21)	59689 (Ice Only) (1)	X123	11/02/2000 16:55	EE021	
MEE022 ✓	Soil/Sediment / Mark Wagner	L/G	CN (21), TM (21)	59693 (Ice Only) (1)	X124	11/02/2000 17:10	EE022	SDG Final Sample

COPY original MEE01B MJS 11/3/00

Shipment for Case Complete? Y	Sample(s) to be used for Laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number 47775 + 47776	Cooler Temperature Upon Receipt: 8°C No Temp Blk	
Analysis Key Below: CN=Cyanide, TM=CLP TAL Total Metals	Concentration: L = Low M = Low/Medium H = High	Type/Designate: Composite = C Grab = G		Custody Seal Intact?	Shipment Iced?

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr, Reston, VA. 20191-3436 Phone: 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-110200-0003

F2V4.0

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

NOV 2 2 2000

Lab Name: COMPUCHEM Contract: 68W00082

Code: LIBRTY Case No.: 28678 SAS No.: _____ SDG No.: MEE01Z

SOW No.: ILM04.1

EPA Sample No.	Lab Sample ID.
MEE01Z	MEE01Z-1
MEE01ZD	WG6744-2
MEE01ZD	WG6727-2
MEE01ZS	WG6744-1
MEE01ZS	WG6727-1
MEE020	MEE01Z-2
MEE021	MEE01Z-3
MEE022	MEE01Z-4

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Thomas R. Cole Name: Thomas R. Cole

Date: November 16, 2000 Title: Data Reviewer II

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE01Z

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01Z

Matrix (soil/water): SOIL Lab Sample ID: MEE01Z-1

Level (low/med): LOW Date Received: 11/03/00

% Solids: 88.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3950			P
7440-36-0	Antimony	0.52	U	N	P
7440-38-2	Arsenic	0.77	U		P
7440-39-3	Barium	40.6	B		P
7440-41-7	Beryllium	0.17	B		P
7440-43-9	Cadmium	0.068	U		P
7440-70-2	Calcium	879	B		P
7440-47-3	Chromium	6.9			P
7440-48-4	Cobalt	2.9	B		P
7440-50-8	Copper	7.2			P
7439-89-6	Iron	4690			P
7439-92-1	Lead	4.3			P
7439-95-4	Magnesium	972	B		P
7439-96-5	Manganese	30.6			P
7439-97-6	Mercury	0.089	B		CV
7440-02-0	Nickel	7.9	B		P
7440-09-7	Potassium	372	B		P
7782-49-2	Selenium	0.98	U	N	P
7440-22-4	Silver	0.091	U		P
7440-23-5	Sodium	206	B		P
7440-28-0	Thallium	3.2			P
7440-62-2	Vanadium	12.2			P
7440-66-6	Zinc	16.3			P
	Cyanide	0.051	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE020

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: _____ SDG No.: MEE01Z

Matrix (soil/water): SOIL Lab Sample ID: MEE01Z-2

Level (low/med): LOW Date Received: 11/03/00

% Solids: 83.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5200			P
7440-36-0	Antimony	0.53	U	N	P
7440-38-2	Arsenic	0.78	U		P
7440-39-3	Barium	56.5			P
7440-41-7	Beryllium	0.24	B		P
7440-43-9	Cadmium	0.069	U		P
7440-70-2	Calcium	2320			P
7440-47-3	Chromium	9.3			P
7440-48-4	Cobalt	3.6	B		P
7440-50-8	Copper	9.9			P
7439-89-6	Iron	7740			P
7439-92-1	Lead	7.4			P
7439-95-4	Magnesium	1400			P
7439-96-5	Manganese	228			P
7439-97-6	Mercury	0.10			CV
7440-02-0	Nickel	10.8			P
7440-09-7	Potassium	643	B		P
7782-49-2	Selenium	0.98	U	N	P
7440-22-4	Silver	0.092	U		P
7440-23-5	Sodium	344	B		P
7440-28-0	Thallium	5.3			P
7440-62-2	Vanadium	12.0			P
7440-66-6	Zinc	27.6			P
	Cyanide	0.053	U		CA

Color Before: BROWN Clarity Before: _____ Texture: COARSE

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments: _____

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE021

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01Z

Matrix (soil/water): SOIL Lab Sample ID: MEE01Z-3

Level (low/med): LOW Date Received: 11/03/00

% Solids: 95.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1630			P
7440-36-0	Antimony	0.45	U	N	P
7440-38-2	Arsenic	0.66	U		P
7440-39-3	Barium	26.6	B		P
7440-41-7	Beryllium	0.085	B		P
7440-43-9	Cadmium	0.058	U		P
7440-70-2	Calcium	556	B		P
7440-47-3	Chromium	5.7			P
7440-48-4	Cobalt	3.0	B		P
7440-50-8	Copper	4.0	B		P
7439-89-6	Iron	3480			P
7439-92-1	Lead	2.7			P
7439-95-4	Magnesium	633	B		P
7439-96-5	Manganese	34.9			P
7439-97-6	Mercury	0.073			CV
7440-02-0	Nickel	8.1			P
7440-09-7	Potassium	140	B		P
7782-49-2	Selenium	0.84	U	N	P
7440-22-4	Silver	0.078	U		P
7440-23-5	Sodium	167	B		P
7440-28-0	Thallium	2.0			P
7440-62-2	Vanadium	10.4			P
7440-66-6	Zinc	10.2			P
	Cyanide	0.045	U		CA

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE022

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE01Z

Matrix (soil/water): SOIL Lab Sample ID: MEE01Z-4

Level (low/med): LOW Date Received: 11/03/00

% Solids: 74.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5620			P
7440-36-0	Antimony	0.58	U	N	P
7440-38-2	Arsenic	4.0			P
7440-39-3	Barium	125			P
7440-41-7	Beryllium	0.59	B		P
7440-43-9	Cadmium	0.43	B		P
7440-70-2	Calcium	149000			P
7440-47-3	Chromium	47.1			P
7440-48-4	Cobalt	7.1	B		P
7440-50-8	Copper	45.1			P
7439-89-6	Iron	12500			P
7439-92-1	Lead	73.7			P
7439-95-4	Magnesium	7220			P
7439-96-5	Manganese	418			P
7439-97-6	Mercury	0.16			CV
7440-02-0	Nickel	19.8			P
7440-09-7	Potassium	1180	B		P
7782-49-2	Selenium	1.1	U	N	P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	353	B		P
7440-28-0	Thallium	3.0			P
7440-62-2	Vanadium	25.2			P
7440-66-6	Zinc	427			P
	Cyanide	0.060	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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BLANKS

Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01Z

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	27.1	U	42.6	B	27.1	U	27.1	U	5.420	U	P
Antimony	2.3	U	2.3	U	2.3	U	2.3	U	0.460	U	P
Arsenic	3.4	U	3.6	B	3.4	U	3.4	U	0.680	U	P
Barium	0.1	U	0.4	B	0.3	B	0.2	B	0.142	B	P
Beryllium	0.2	U	0.2	B	0.2	U	0.2	U	0.040	U	P
Cadmium	0.3	U	0.5	B	0.4	B	0.3	U	-.072	B	P
Calcium	-58.9	B	25.0	U	-43.5	B	25.0	U	5.000	U	P
Chromium	-.6	B	0.6	U	0.6	U	0.6	U	0.120	U	P
Cobalt	0.6	U	0.6	U	0.6	U	0.6	U	0.120	U	P
Copper	0.9	U	1.1	B	1.3	B	1.6	B	0.290	B	P
Iron	10.6	U	21.1	B	10.6	U	28.6	B	5.918	B	P
Lead	-2.6	B	2.1	U	2.1	U	2.1	U	0.420	U	P
Magnesium	7.6	U	74.8	B	13.7	B	67.3	B	4.453	B	P
Manganese	0.1	U	0.4	B	0.4	B	0.2	B	0.170	B	P
Mercury	0.2	B	0.2	B	0.1	B			0.089	B	CV
Nickel	0.8	U	0.8	U	0.8	U	1.0	B	0.160	U	P
Potassium	23.0	U	23.0	U	23.0	U	23.0	U	7.313	B	P
Selenium	4.3	U	4.3	U	4.3	U	-4.7	B	0.860	U	P
Silver	0.4	U	0.4	U	0.4	U	0.4	U	0.080	U	P
Sodium	142.0	B	138.9	U	138.9	U	138.9	U	133.029	B	P
Thallium	5.7	U	5.7	U	5.7	U	5.7	U	1.140	U	P
Vanadium	0.7	U	0.7	U	0.7	U	0.7	U	0.140	U	P
Zinc	-4.4	B	-4.3	B	-4.3	B	-4.4	B	-.245	B	P
Cyanide	0.9	U	0.9	U	0.9	U			0.045	U	CA

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BLANKS

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: _____ SDG NO.: MEE01Z

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			27.1	U	-29.3	B	27.6	B			P
Antimony			2.3	U	2.3	U	2.3	U			P
Arsenic			3.4	U	3.4	U	3.4	U			P
Barium			0.4	B	0.2	B	0.4	B			P
Beryllium			0.2	U	0.2	U	0.2	U			P
Cadmium			0.5	B	0.3	U	0.5	B			P
Calcium			26.4	B	-31.4	B	25.0	U			P
Chromium			0.6	U	0.6	U	0.6	U			P
Cobalt			0.6	U	0.6	U	0.6	U			P
Copper			1.9	B	1.6	B	1.7	B			P
Iron			32.6	B	10.6	U	36.0	B			P
Lead			2.1	U	2.1	U	2.1	U			P
Magnesium			83.1	B	10.3	B	73.4	B			P
Manganese			0.5	B	0.3	B	0.4	B			P
Nickel			0.8	U	0.8	U	0.8	U			P
Potassium			23.0	U	23.0	U	23.0	U			P
Selenium			4.3	U	4.3	U	4.3	U			P
Silver			0.4	U	0.4	U	0.4	U			P
Sodium			138.9	U	138.9	U	138.9	U			P
Thallium			5.7	U	5.7	U	5.7	U			P
Vanadium			0.7	U	0.7	U	0.7	U			P
Zinc			-4.1	B	-4.3	B	-4.2	B			P

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BLANKS

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: _____ SDG NO.: MEE01Z

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			27.1	U	27.1	U	-30.5	B			P
Antimony			2.3	U	2.4	B	3.0	B			P
Arsenic			3.4	U	3.4	U	3.4	U			P
Barium			0.2	B	0.2	B	0.7	B			P
Beryllium			0.2	U	0.2	U	0.2	U			P
Cadmium			0.3	U	0.3	B	0.4	B			P
Calcium			-42.8	B	-26.5	B	-31.0	B			P
Chromium			0.6	U	0.6	U	0.6	U			P
Cobalt			0.6	U	0.6	U	0.6	U			P
Copper			1.1	B	1.7	B	1.8	B			P
Iron			10.6	U	17.0	B	10.6	U			P
Lead			2.1	U	2.1	U	2.1	U			P
Magnesium			9.6	B	41.8	B	17.9	B			P
Manganese			0.4	B	0.2	B	0.3	B			P
Nickel			0.8	U	0.8	U	0.8	U			P
Potassium			23.0	U	23.0	U	23.0	U			P
Selenium			4.3	U	4.3	U	4.3	U			P
Silver			0.4	U	0.4	B	0.4	U			P
Sodium			161.1	B	138.9	U	148.5	B			P
Thallium			5.7	U	5.7	U	5.7	U			P
Vanadium			0.7	U	0.7	U	0.7	U			P
Zinc			-4.4	B	-4.4	B	-4.3	B			P

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3

BLANKS

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: _____ SDG NO.: MEE01Z

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			38.6	B							P
Antimony			2.5	B							P
Arsenic			3.4	U							P
Barium			0.2	B							P
Beryllium			0.2	U							P
Cadmium			0.3	B							P
Calcium			25.0	U							P
Chromium			0.6	U							P
Cobalt			0.6	U							P
Copper			2.0	B							P
Iron			26.7	B							P
Lead			2.1	U							P
Magnesium			61.6	B							P
Manganese			0.3	B							P
Nickel			0.8	U							P
Potassium			23.0	U							P
Selenium			4.3	U							P
Silver			0.4	U							P
Sodium			138.9	U							P
Thallium			5.7	U							P
Vanadium			0.7	U							P
Zinc			-4.4	B							P

U. S. EPA - CLP

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: _____ SDG NO.: MEE01Z

ICP ID Number: P3 ICS Source: INORGVEN

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000	494867	495172.8	99.0	490586	498887.8	99.8
Antimony	0	600	4	646.0	107.7	8	648.1	108.0
Arsenic	0	100	-1	105.8	105.8	-1	108.3	108.3
Barium	0	500	1	541.0	108.2	1	542.2	108.4
Beryllium	0	500	0	499.9	100.0	0	497.8	99.6
Cadmium	0	1000	-1	954.8	95.5	-1	947.3	94.7
Calcium	500000	500000	499963	502785.6	100.6	506708	497263.4	99.4
Chromium	0	500	-1	494.0	98.8	-1	490.3	98.1
Cobalt	0	500	2	512.2	102.4	1	509.3	101.9
Copper	0	500	3	516.1	103.2	3	522.4	104.5
Iron	200000	200000	197852	199969.9	100.0	198058	198758.8	99.4
Lead	0	50	0	51.8	103.6	-4	50.6	101.2
Magnesium	500000	500000	521603	527944.9	105.6	524060	525557.0	105.1
Manganese	0	500	3	511.8	102.4	-4	509.5	101.9
Nickel	0	1000	4	977.1	97.7	1	968.5	96.8
Potassium	0	0	5	16.2		7	-.9	
Selenium	0	50	1	51.1	102.2	-2	43.0	86.0
Silver	0	200	0	196.1	98.0	0	197.6	98.8
Sodium	0	0	282	205.3		242	94.1	
Thallium	0	100	-13	90.3	90.3	-15	86.7	86.7
Vanadium	0	500	4	518.1	103.6	4	515.1	103.0
Zinc	0	1000	17	1058.9	105.9	8	1050.6	105.1

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: _____ SDG NO.: MEE01Z

ICP ID Number: P3 ICS Source: INORGVEN

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000				486336	493837.9	98.8
Antimony	0	600				2	654.1	109.0
Arsenic	0	100				-6	102.8	102.8
Barium	0	500				1	547.1	109.4
Beryllium	0	500				0	505.7	101.1
Cadmium	0	1000				0	963.2	96.3
Calcium	500000	500000				511338	509484.0	101.9
Chromium	0	500				-1	499.5	99.9
Cobalt	0	500				1	517.2	103.4
Copper	0	500				3	516.8	103.4
Iron	200000	200000				198453	201111.0	100.6
Lead	0	50				-5	50.1	100.2
Magnesium	500000	500000				526798	533165.4	106.6
Manganese	0	500				-5	514.8	103.0
Nickel	0	1000				2	982.1	98.2
Potassium	0	0				12	10.9	
Selenium	0	50				5	52.6	105.2
Silver	0	200				0	196.1	98.0
Sodium	0	0				386	189.2	
Thallium	0	100				10	91.7	91.7
Vanadium	0	500				4	523.0	104.6
Zinc	0	1000				7	1063.1	106.3

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01Z

ICP ID Number: P3 ICS Source: INORGVEN

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000				489885	497236.1	99.4
Antimony	0	600				4	659.6	109.9
Arsenic	0	100				-6	103.6	103.6
Barium	0	500				1	554.8	111.0
Beryllium	0	500				0	509.1	101.8
Cadmium	0	1000				0	968.3	96.8
Calcium	500000	500000				511633	512657.4	102.5
Chromium	0	500				-1	502.5	100.5
Cobalt	0	500				1	520.4	104.1
Copper	0	500				4	530.6	106.1
Iron	200000	200000				199376	202384.2	101.2
Lead	0	50				-4	47.7	95.4
Magnesium	500000	500000				527718	535674.7	107.1
Manganese	0	500				-5	516.5	103.3
Nickel	0	1000				2	989.9	99.0
Potassium	0	0				9	13.9	
Selenium	0	50				-6	47.4	94.8
Silver	0	200				0	198.1	99.0
Sodium	0	0				264	154.6	
Thallium	0	100				-17	94.7	94.7
Vanadium	0	500				3	527.3	105.5
Zinc	0	1000				7	1067.6	106.8

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01Z

ICP ID Number: P3 ICS Source: INORGVEN

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000				489034	498043.0	99.6
Antimony	0	600				5	667.8	111.3
Arsenic	0	100				-9	107.4	107.4
Barium	0	500				1	558.2	111.6
Beryllium	0	500				0	509.7	101.9
Cadmium	0	1000				0	969.5	96.9
Calcium	500000	500000				514131	512617.3	102.5
Chromium	0	500				-1	503.6	100.7
Cobalt	0	500				1	519.4	103.9
Copper	0	500				3	529.4	105.9
Iron	200000	200000				200149	202639.0	101.3
Lead	0	50				-5	50.7	101.4
Magnesium	500000	500000				530445	537058.2	107.4
Manganese	0	500				-5	517.4	103.5
Nickel	0	1000				1	990.8	99.1
Potassium	0	0				9	5.6	
Selenium	0	50				-1	53.9	107.8
Silver	0	200				0	197.8	98.9
Sodium	0	0				388	96.0	
Thallium	0	100				-7	88.9	88.9
Vanadium	0	500				3	528.8	105.8
Zinc	0	1000				7	1071.0	107.1

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01Z

ICP ID Number: P3 ICS Source: INORGVEN

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000				521896	528626.3	105.7
Antimony	0	600				11	663.6	110.6
Arsenic	0	100				-6	107.0	107.0
Barium	0	500				1	565.7	113.1
Beryllium	0	500				0	504.7	100.9
Cadmium	0	1000				0	953.9	95.4
Calcium	500000	500000				492756	496030.5	99.2
Chromium	0	500				-2	495.6	99.1
Cobalt	0	500				1	514.1	102.8
Copper	0	500				4	564.5	112.9
Iron	200000	200000				195855	199845.6	99.9
Lead	0	50				-2	51.2	102.4
Magnesium	500000	500000				519586	530608.1	106.1
Manganese	0	500				-6	513.2	102.6
Nickel	0	1000				0	976.8	97.7
Potassium	0	0				-13	-13.6	
Selenium	0	50				0	46.9	93.8
Silver	0	200				0	208.5	104.2
Sodium	0	0				317	14.4	
Thallium	0	100				-15	91.1	91.1
Vanadium	0	500				4	525.3	105.1
Zinc	0	1000				5	1052.3	105.2

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEE01ZS

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01Z

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 88.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75 - 125	70.7175		0.5227	U	113.64	62.2	N	P
Arsenic	75 - 125	9.0446		0.7727	U	9.09	99.5		P
Barium	75 - 125	552.0977		40.5816	B	454.55	112.5		P
Beryllium	75 - 125	11.7217		0.1705	B	11.36	101.7		P
Cadmium	75 - 125	11.3466		0.0682	U	11.36	99.9		P
Chromium	75 - 125	55.2765		6.9498		45.45	106.3		P
Cobalt	75 - 125	120.6630		2.8894	B	113.64	103.6		P
Copper	75 - 125	67.9861		7.2591		56.82	106.9		P
Lead	75 - 125	9.0117		4.2749		4.55	104.1		P
Manganese	75 - 125	153.5834		30.5511		113.64	108.3		P
Mercury	75 - 125	0.6159		0.0890	B	0.57	92.4		CV
Nickel	75 - 125	125.0704		7.9490	B	113.64	103.1		P
Selenium	75 - 125	1.4330		0.9773	U	2.27	63.1	N	P
Silver	75 - 125	11.4436		0.0909	U	11.36	100.7		P
Thallium	75 - 125	14.4642		3.2561		11.36	98.7		P
Vanadium	75 - 125	133.5834		12.1624		113.64	106.8		P
Zinc	75 - 125	131.9147		16.3355		113.64	101.7		P
Cyanide	75 - 125	5.7958		0.0511	U	5.68	102.0		CA

Comments:

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5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEE01ZA

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01Z

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Antimony		121.23		2.30	U	120.0	101.0		P
Selenium		11.47		4.30	U	10.0	114.7		P

Comments:

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DUPLICATES

EPA SAMPLE NO.

MEE01ZD

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01Z

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 88.0 % Solids for Duplicate: 90.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		3952.1682		3911.7185		1.0		P
Antimony		0.5227	U	0.5227	U			P
Arsenic		0.7727	U	0.7727	U			P
Barium		40.5816	B	40.0750	B	1.2		P
Beryllium		0.1705	B	0.2152	B	23.2		P
Cadmium		0.0682	U	0.0682	U			P
Calcium		879.0446	B	950.2861	B	7.8		P
Chromium	2.3	6.9498		7.0932		2.0		P
Cobalt		2.8894	B	3.0817	B	6.4		P
Copper	5.7	7.2591		7.4520		2.6		P
Cyanide		0.0511	U	0.0551	B	200.0		CA
Iron		4688.3301		4921.5952		4.8		P
Lead		4.2749		4.5882		7.1		P
Magnesium		971.5474	B	1014.1367	B	4.3		P
Manganese		30.5511		32.1501		5.1		P
Mercury	0.1	0.0890	B	0.1160		26.3		CV
Nickel		7.9490	B	8.4378	B	6.0		P
Potassium		371.6614	B	388.4771	B	4.4		P
Selenium		0.9773	U	0.9773	U			P
Silver		0.0909	U	0.0909	U			P
Sodium		206.5508	B	249.7057	B	18.9		P
Thallium	2.3	3.2561		2.8012		15.0		P
Vanadium	11.4	12.1624		12.8808		5.7		P
Zinc	4.5	16.3355		17.4120		6.4		P

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Name: COMPUCHEM Contract: 68W00082

Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01Z

ID Number: P3 Date: 10/15/00

e AA ID Number:

ace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200	27.1	P
Antimony	206.84		60	2.3	P
Arsenic	189.04		10	3.4	P
Barium	493.41		200	0.1	P
Beryllium	313.04		5	0.2	P
Cadmium	226.50		5	0.3	P
Calcium	317.93		5000	25.0	P
Chromium	267.72		10	0.6	P
Cobalt	228.62		50	0.6	P
Copper	324.70		25	0.9	P
Iron	271.44		100	10.6	P
Lead	220.35		3	2.1	P
Magnesium	279.08		5000	7.6	P
Manganese	257.61		15	0.1	P
Nickel	231.60		40	0.8	P
Potassium	766.49		5000	23.0	P
Selenium	196.03		5	4.3	P
Silver	328.07		10	0.4	P
Sodium	330.23		5000	138.9	P
Thallium	190.86		10	5.7	P
Vanadium	292.40		50	0.7	P
Zinc	213.86		20	1.2	P

Comments:

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01Z

ICP ID Number: Date: 10/15/00

Flame AA ID Number: V2

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Mercury	253.70		0.2	0.1	CV

Comments:

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01Z

ICP ID Number: Date: 10/15/00

Flame AA ID Number: C2

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Cyanide			10	0.9	CA

Comments:

PREPARATION LOG

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01Z

Method: P

EPA Sample No.	Preparation Date	Weight (grams)	Volume (mL)
LCSS	11/07/00	1.00	200
MEE01Z	11/07/00	1.00	200
MEE01ZD	11/07/00	1.00	200
MEE01ZS	11/07/00	1.00	200
MEE020	11/07/00	1.05	200
MEE021	11/07/00	1.08	200
MEE022	11/07/00	1.06	200
PBS	11/07/00	1.00	200

PREPARATION LOG

Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01Z

Method: CV

EPA Sample No.	Preparation Date	Weight (grams)	Volume (mL)
LCSS	11/07/00	0.20	100
MEE01Z	11/07/00	0.20	100
MEE01ZD	11/07/00	0.20	100
MEE01ZS	11/07/00	0.20	100
MEE020	11/07/00	0.24	100
MEE021	11/07/00	0.29	100
MEE022	11/07/00	0.21	100
PBS	11/07/00	0.20	100

PREPARATION LOG

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE01Z

Method: CA

EPA Sample No.	Preparation Date	Weight (grams)	Volume (mL)
LCSS	11/06/00	1.00	50
MEE01Z	11/06/00	1.00	50
MEE01ZD	11/06/00	1.00	50
MEE01ZS	11/06/00	1.00	50
MEE020	11/06/00	1.02	50
MEE021	11/06/00	1.04	50
MEE022	11/06/00	1.01	50
PBS	11/06/00	1.00	50

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: HE8012 CERCLIS No: ILD041869023

Case No: 28678 Site Name/Location: CLARK OIL

Contractor or EPA Lab: CompuChem Data User: IEPA

No. of Samples: 4 Date Sampled or Date Received: 11-22-00

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 4 No. of samples received: 4

Received by: Eva M. Dixon / ESAT Date: 11-22-00

Received by LSSS: Eva M. Dixon / ESAT Date: 11-22-00

Review started: 11-15-00 Reviewer Signature: Stephanie Tibbin

Total time spent on review: 4 Date review completed: 12-20-00

Copied by: Eva M. Dixon / ESAT Date: 12-21-00

Mailed to user by: Eva M. Dixon / ESAT Date: 12-21-00

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

DATE: December 28, 2000

TO: IEPA
1021 North Grand Avenue East
Springfield, IL 62702

Attn: Bob Casper

SITE NAME: CLARK OIL

CASE NO	LAB	NO # OF SAMPLES	SDG	MATRIX
28678	COMPUCHEM	6	MEE025	SOIL

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
CHICAGO, IL 60605

Sent By: Eva M. Dixon, ESAT

RECEIVED
JAN 03 2001
IEPA-BOL-FSRS

DEC 2 8 2000

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 12/27/2000

SUBJECT: Review of Data
Received for Review on November 28, 2000

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section /LF

TO: Data User: IEPA

We have reviewed the data for the following case:

Site name: Clark Oil (IL)

Case number: 28678 SDG NUMBER: MEE025

Number and Type of Samples: 6 soil samples

Sample Numbers: MEE025-MEE029, MEE02A

Laboratory: Compuchem Hrs. for Review: 8 ~~8~~ 6 +1

Following are our findings:

Non-detected Sb results are unusable (R) due to extremely low spike recovery.
All other data are usable with the qualifications described in the attached narrative.

L. Finkelberg
12/27/2000

CC: Cecilia Luckett
Region 5 TPO
Mail Code: SM-5J

Case Number: 28678
Site Name: Clark Oil (IL)

SDG Number: MEE025
Laboratory: Compuchem

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Six soil samples, numbered MEE025-MEE029, MEE02A were collected on 11/09/2000. The lab received the samples on 11/10/2000. The temperature of the sample cooler was 7 degrees C upon receipt. All samples were analyzed for metals. All samples were analyzed using CLP SOW ILM04.0 analysis procedure.

Mercury analysis was performed using a Cold Vapor AA Technique. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

Case Number: 28678
Site Name: Clark Oil (IL)

SDG Number: MEE025
Laboratory: Compuchem

1. HOLDING TIME:

HOLDING TIME CRITERIA

Inorganic

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	0	2.0	0.0
Mercury	28	0	2.0	0.0
Cyanide	14	0	2.0	0.0

DC-280: The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

MEE025, MEE026, MEE027, MEE028, MEE029, MEE02B

2. CALIBRATIONS:

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85.00	115.00	70.00	130.00
AA	90.00	110.00	75.00	125.00
ICP	90.00	110.00	75.00	125.00
Mercury	80.00	120.00	65.00	135.00

No problems were found for this qualification.

3. BLANKS:

LABORATORY BLANKS CRITERIA

The following inorganic samples are associated with a negative blank concentration whose absolute value is greater than the instrument detection limit (IDL). The sample concentration is greater than the IDL and less than five times the absolute value of the blank concentration. Hits are qualified "J".

Cadmium
MEE027, MEE028

Thallium
MEE026

DC-284: The following inorganic samples are associated with a blank concentration which is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the blank concentration. Hits are qualified "J"; non-detects are not flagged.

Cadmium
MEE027, MEE028

Beryllium
MEE026, MEE02A

Mercury
MEE025, MEE026, MEE027, MEE028, MEE029, MEE02A

Selenium
MEE025, MEE026, MEE027

Sodium
MEE025, MEE026, MEE027, MEE028, MEE029, MEE02A

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits

Upper	125.0
Lower	75.0
Extreme lower	30.0

DC-268: The following inorganic samples are associated with a matrix spike recovery which is low (30-74 %) indicating that sample results may be biased low. Hits are qualified "J" and non-detects are qualified "UJ".

Selenium
MEE025, MEE026, MEE027, MEE028, MEE029, MEE02A

DC-269: The following inorganic samples are associated with a matrix spike recovery which is extremely low (

Case Number: 28678 **SDG Number: MEE025**
Site Name: Clark Oil (IL) **Laboratory: Compuchem**

<30 %) indicating that sample results may be biased low. Hits are qualified "J" and non-detects are qualified "R".

Antimony
MEE025, MEE026, MEE027, MEE028, MEE029, MEE02A

5. LABORATORY AND FIELD DUPLICATE

No problems were found for this qualification.

6. ICP ANALYSIS

DC-294: The analyte concentration is high (>50 X the IDL) and serial dilution percent difference is not in control (>10%). All associated data are qualified "J".

Nickel
MEE025, MEE026, MEE027, MEE028, MEE029, MEE02A

Potassium
MEE025, MEE026, MEE027, MEE028, MEE029, MEE02A

7. GFAA ANALYSIS

NA

8. SAMPLE RESULTS

The following inorganic samples are associated with an ICP duplicate injection percent RSD which is greater than 20% and the sample results are reported above the CRDL. The data must be qualified using professional judgement. All associated data are estimated "J".

Selenium
MEE025, MEE027

All data, except those qualified above, are acceptable.

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case # 28678 SDG : MEE025
Site : CLARK OIL
Lab : Compuchem
Reviewer : S. Tobin
Date : 12/19/2000

Number of Soil Samples : 6
Number of Water Samples : 0

Sample Number :	MEE02A		MEE025		MEE026		MEE027		MEE028	
Sampling Location :	X130		X125		X126		X127		X128	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/9/00		11/9/00		11/9/00		11/9/00		11/9/00	
Time Sampled :	16:00		10:00		10:25		12:00		12:15	
%Solids :	74.1		76.2		83.8		75.6		70.8	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	6860		11400		4280		14400		14100	
ANTIMONY	0.65	J	0.61	J	0.51	R	0.64	J	0.65	R
ARSENIC	5.0		3.3		0.75	U	7.4		7.8	
BARIUM	161		171		50.1		187		322	
BERYLLIUM	0.51	J	0.83		0.35	J	0.93		1.0	
CADMIUM	0.080	U	0.080	U	0.070	U	0.16	J	0.15	J
CALCIUM	23900		4230		1560		11300		9900	
CHROMIUM	11.4		15.8		7.8		86.0		18.1	
COBALT	8.4		5.6		3.8		9.1		8.6	
COPPER	16.3		20.1		8.1		25.2		26.9	
IRON	17300		16400		7740		23300		21900	
LEAD	13.8		20.6		5.9		45.2		18.7	
MAGNESIUM	8360		2630		1470		3860		5190	
MANGANESE	516		372		48.4		825		473	
MERCURY	0.090	J	0.10	J	0.050	J	0.18	J	0.10	J
NICKEL	21.6	J	14.9	J	9.9	J	22.3	J	23.3	J
POTASSIUM	1320	J	1090	J	422	J	1420	J	2370	J
SELENIUM	1.2	UJ	1.5	J	1.6	J	1.8	J	1.2	UJ
SILVER	0.11	U	0.10	U	0.090	U	0.10	U	0.11	U
SODIUM	443	J	195	J	206	J	346	J	354	J
THALLIUM	9.9		11.7		5.0	J	15.4		13.3	
VANADIUM	21.7		25.6		13.3		34.9		34.7	
ZINC	48.3		66.7		25.1		92.4		70.5	
CYANIDE										

Analytical Results (Qualified Data)

Case #: 28678	SDG : MEE025		
Site	CLARK OIL	Number of Soil Samples :	6
Lab. :	Compuchem	Number of Water Samples :	0
Reviewer :	S. Tobin		
Date :	12/19/2000		

Sample Number :	MEE029									
Sampling Location :	X129									
Matrix :	Soil									
Units :	mg/Kg									
Date Sampled :	11/9/00									
Time Sampled :	15:45									
%Solids	76.9									
Dilution Factor :	1.0									
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	14700									
ANTIMONY	0.60	R								
ARSENIC	5.3									
BARIUM	256									
BERYLLIUM	0.87									
CADMIUM	0.080	U								
CALCIUM	7750									
CHROMIUM	17.3									
COBALT	8.1									
COPPER	25.4									
IRON	19900									
LEAD	21.5									
MAGNESIUM	4130									
MANGANESE	601									
MERCURY	0.070	J								
NICKEL	21.7	J								
POTASSIUM	1470	J								
SELENIUM	1.1	UJ								
SILVER	0.10	U								
SODIUM	377	J								
THALLIUM	13.2									
VANADIUM	30.5									
ZINC	62.1									
CYANIDE										

QC EXCEPTION SUMMARY REPORT

CASE\SAS#: 23678 SITE: Clark Pit MATRIX: Soil WATER SAMPLE SPK: NA

DATA SET: MEE025 LAB: Compuchem CONC: 1000 WATER SAMPLE DUP: NA

LAB QC # MEE025 REVIEWED BY: Stephanie Tobin SOIL SAMPLE SPK: MEE025

DATE: 12-15-00 SOIL SAMPLE DUP: MEE025

FORM #		FORM 2	FORM 2	FORM 3	FORM 3	FORM 3	FORM 4	FORM 5	FORM 6	FORM 7	FORM 7	FORM 9	FORM 9	FORM 6	FORM 5	FIELD	FIELD	FIELD	FIELD	COMMENTS
ELEMENT	HOLD TIME 4/09	INITIAL CALIB	CONTIN CALIB	CALIB BLANK	PREP WATER BLANK	PREP SOIL BLANK	ICS %R	SOIL SPIKE %R	SOIL DUP RPD	ICS AQ	ICS SOIL	SERIAL DILUTION AQUEOUS	SERIAL DILUTION SOIL	AQ DUP %R	AQ SPIKE %R	BLANK	DUP RPD	BLANK	DUP RPD	
ALUMINUM	OK	OK	OK	-579/52	NA		OK			NA	OK	NA		NA	NA	NA	NA			
ANTIMONY								228												
ARSENIC																				
BARIUM				.3		.100														
BERYLLIUM				.6																
CADMIUM				.6		-.077														
CALCIUM				-70.0		8.398														
CHROMIUM				-1.5		-.161														
COBALT				.7																
COPPER																				
IRON				30.8		11.453														
LEAD									25.1											
MAGNESIUM				76.5		4.500														
MANGANESE				-1.1		.781														
MERCURY						0.053														
NICKEL				-2.9		-.575							10.4							
POTASSIUM													12.1							
SELENIUM				4.7				65.6												
SILVER				.4																
SODIUM				298.8		172.538														
THALLIUM				-5.7																
TIN																				
VANADIUM				.9																
ZINC				-7.8		-.695														
CYANIDE																				

USEPA Contract Laboratory Program
Inorganic Traffic Report

9:30

Case No.	28678
DAS No.	
SDG No.	MEE025

L

113

Date Shipped: 11/9/00
Carrier Name: Fed Ex
Airbill: 3497988060
Shipped to:
Liberty Analytical
501 Madison Avenue
Cary NC 27513
(919) 379-4080

Date Received/Received by: 11/10/00 [illegible]
Lab Contract No.: 68W00082 Unit Price: $75.00

Transfer To:
Date Received/Received By:
Contract No.: Price:

Sampler (Signature)

Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:
Relinquished By:	Date / Time	Received By:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ Preservative	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MEE025	Soil/Sediment / Mark Densmore	L/G	TM (21)	559700 (Ice Only) (1)	X125	11/09/2000 10:00	EE025	GOOD
MEE026	Soil/Sediment / Mark Densmore	L/G	TM (21)	559704 (Ice Only) (1)	X126	11/09/2000 10:25	EE026	
MEE027	Soil/Sediment / Mark Densmore	L/G	TM (21)	559708 (Ice Only) (1)	X127	11/09/2000 12:00	EE027	
MEE028	Soil/Sediment / Mark Densmore	L/G	TM (21)	559712 (Ice Only) (1)	X128	11/09/2000 12:15	EE028	
MEE029	Soil/Sediment / Mark Densmore	L/G	TM (21)	559716 (Ice Only) (1)	X129	11/09/2000 15:45	EE029	
MEE02A	Soil/Sediment / Mark Densmore	L/G	TM (21)	559720 (Ice Only) (1)	X130	11/09/2000 16:00	EE02A	SDG-FINAL SAMPLE

ORIGINAL

Shipment for Case Complete?	Sample(s) to be used for Laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number	Cooler Temperature Upon Receipt:
Y			47777	7°C

Analysis Key Below:	Concentration: L = Low M = Low/Medium H = High	Type/Designate: Composite = C Grab = G	Custody Seal intact?	Shipment iced?
TM=CLP TAL Total Metals			Y	Y

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr. Reston, VA. 20191-3436 Phone: 703/264-9348 Fax 703/264-9222

TR Number: 05-405012729-110900-0002

F2V4.0

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

SDG NARRATIVE
CASE # 28678 SDG # MEE025
CONTRACT # 68W00082

The indicated Sample Delivery Group (SDG) consisting of six (6) soil samples was received into the laboratory information management system (LIMS) on November 10, 2000 intact and in good condition with Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. The temperature of the samples upon receipt was 7°C, as determined from the cooler temperature indicator bottle. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were analyzed, in accordance with EPA CLP Statement of Work (SOW) document ILM04.1 for the complete Inorganic Target Analyte List (TAL), excluding cyanide.

The correlation coefficient for the mercury analytical run is confirmed to be ≥ 0.9950.

EQUATIONS FOR SOLID SAMPLE CALCULATIONS:

Equation for obtaining metals sample results in mg/Kg as presented on FORM I data sheets from ICP instrument acquired results in µg/L (ppb).

$$\frac{C \times V}{W \times S}$$

Where

C = concentration (µg/L)

V = final volume in liters after sample preparation

W = weight in grams of wet sample

S = % solids/100

Example: aluminum result µg/L to mg/Kg.

$$\frac{43437.04\ \mu g/L\ (C) \times 0.2\ L\ (V)}{1.0\ g\ (W) \times 0.762\ (S)} = 11400.80\ mg/Kg \text{ reported as } 11400\ mg/Kg$$

Equation for obtaining mercury sample results in mg/Kg as presented on FORM I data sheets from instrument acquired results in µg/L (ppb).

$$\frac{C \times D \times V}{W \times S}$$

Where

C = concentration (µg/L)

W = wet weight of sample

D = dilution factor to bring sample into analysis range

S = % solids/100

V = final volume in liters

Example: mercury result µg/L to mg/Kg

$$\frac{0.1477\ \mu g/L(C) \times 1\ (D) \times 0.1\ (V)}{0.2\ g\ (W) \times 0.762\ (S)} = 0.09692\ mg/Kg \text{ reported as } 0.097\ mg/Kg$$

SAMPLE IDs:
The following customer IDs are associated with this SDG:
MEE025 MEE026 MEE027 MEE028 MEE029 MEE02A

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within EPA CLP allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSS & PBS) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

COMPUCHEM utilizes a soil Laboratory Control Sample (LCS) purchased from Environmental Resources Associates (ERA). With each lot of soil LCS material purchased, a certification document is included which provides Performance Acceptance Limits ™ (PAL ™). The limits are listed as guidelines for acceptable results and closely approximate the 95% confidence interval. As with any LCS. it is a QC measure used to demonstrate control and any results, which are outside the acceptance criteria, require corrective action up to and including redigesting and reanalyzing the entire sample preparation batch.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike, CCN = WG6897-1 (MEE025S) was found to be outside CLP control limits for Antimony and Selenium.

CLP control limits for matrix spike recoveries are set at 75% to 125% of the analyte quantity added unless original sample concentrations exceed the true values of these "spikes" by a factor of four or more. In this case, affected analytes are not flagged even if recoveries are outside percentage recovery control limits.

The sample matrix duplicate, CCN = WG6897-2 (MEE025D) was outside CLP control limits for Lead.

CLP control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = SDIMEE025-1 (MEE025L) was performed in accordance with CLP requirements for ICP analysis.

The adjusted sample concentrations were outside CLP control limit for Potassium and Nickel, which are flagged with an "E" on all associated Form I and Form IX.

CLP control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution adjusted concentrations from the original values for all analyte concentrations greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

An "E" flag indicates that a chemical or physical interference effect was encountered during the analysis of that analyte. As a result of the interference, all values for that analyte in the same matrix must be considered estimated values.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

James E. Medlin
Senior Chemist
November 22, 2000

U. S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

NOV 28 2000

Lab Name: COMPUCHEM Contract: 68W00082

Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE025

SOW No.: ILM04.1

EPA Sample No.	Lab Sample ID.
MEE025	MEE025-1
MEE025D	WG6897-2
MEE025S	WG6897-1
MEE026	MEE025-2
MEE027	MEE025-3
MEE028	MEE025-4
MEE029	MEE025-5
MEE02A	MEE025-6

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: THE FOLLOWING ANALYTES HAVE BEEN FLAGGED WITH AN "E" TO INDICATE SERIAL DILUTION RESULTS WHICH ARE NOT WITHIN CONTROL LIMITS : POTASSIUM and NICKEL.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: James Medlin Name: James Medlin

Date: 11/22/00 Title: Senior Chemist

U. S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE025

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE025

Matrix (soil/water): SOIL Lab Sample ID: MEE025-1

Level (low/med): LOW Date Received: 11/10/00

% Solids: 76.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11400			P
7440-36-0	Antimony	0.61	B	N	P
7440-38-2	Arsenic	3.3			P
7440-39-3	Barium	171			P
7440-41-7	Beryllium	0.83	B		P
7440-43-9	Cadmium	0.079	U		P
7440-70-2	Calcium	4230			P
7440-47-3	Chromium	15.8			P
7440-48-4	Cobalt	5.6	B		P
7440-50-8	Copper	20.1			P
7439-89-6	Iron	16400			P
7439-92-1	Lead	20.6		*	P
7439-95-4	Magnesium	2630			P
7439-96-5	Manganese	372			P
7439-97-6	Mercury	0.097	B		CV
7440-02-0	Nickel	14.9		E	P
7440-09-7	Potassium	1090	B	E	P
7782-49-2	Selenium	1.4		N	P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	195	B		P
7440-28-0	Thallium	11.7			P
7440-62-2	Vanadium	25.6			P
7440-66-6	Zinc	66.7			P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

U. S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE026

Lab Name COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE025

Matrix (soil/water): SOIL Lab Sample ID: MEE025-2

Level (low/med): LOW Date Received: 11/10/00

% Solids: 83.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4280			P
7440-36-0	Antimony	0.51	U	N	P
7440-38-2	Arsenic	0.75	U		P
7440-39-3	Barium	50.1			P
7440-41-7	Beryllium	0.35	B		P
7440-43-9	Cadmium	0.066	U		P
7440-70-2	Calcium	1560			P
7440-47-3	Chromium	7.8			P
7440-48-4	Cobalt	3.8	B		P
7440-50-8	Copper	8.1			P
7439-89-6	Iron	7740			P
7439-92-1	Lead	5.9		*	P
7439-95-4	Magnesium	1470			P
7439-96-5	Manganese	48.4			P
7439-97-6	Mercury	0.050	B		CV
7440-02-0	Nickel	9.9		E	P
7440-09-7	Potassium	422	B	E	P
7782-49-2	Selenium	1.6		N	P
7440-22-4	Silver	0.088	U		P
7440-23-5	Sodium	206	B		P
7440-28-0	Thallium	5.0			P
7440-62-2	Vanadium	13.3			P
7440-66-6	Zinc	25.1			P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

U. S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE027

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: _____ SDG No.: MEE025

Matrix (soil/water): SOIL Lab Sample ID: MEE025-3

Level (low/med): LOW Date Received: 11/10/00

% Solids: 75.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14400			P
7440-36-0	Antimony	0.64	B	N	P
7440-38-2	Arsenic	7.4			P
7440-39-3	Barium	187			P
7440-41-7	Beryllium	0.93	B		P
7440-43-9	Cadmium	0.16	B		P
7440-70-2	Calcium	11300			P
7440-47-3	Chromium	86.0			P
7440-48-4	Cobalt	9.1	B		P
7440-50-8	Copper	25.2			P
7439-89-6	Iron	23300			P
7439-92-1	Lead	45.2		*	P
7439-95-4	Magnesium	3860			P
7439-96-5	Manganese	824			P
7439-97-6	Mercury	0.18			CV
7440-02-0	Nickel	22.3		E	P
7440-09-7	Potassium	1420		E	P
7782-49-2	Selenium	1.8		N	P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	346	B		P
7440-28-0	Thallium	15.4			P
7440-62-2	Vanadium	34.9			P
7440-66-6	Zinc	92.4			P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE028

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE025

Matrix (soil/water): SOIL Lab Sample ID: MEE025-4

Level (low/med): LOW Date Received: 11/10/00

% Solids: 70.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14100			P
7440-36-0	Antimony	0.65	U	N	P
7440-38-2	Arsenic	7.8			P
7440-39-3	Barium	322			P
7440-41-7	Beryllium	1.0	B		P
7440-43-9	Cadmium	0.15	B		P
7440-70-2	Calcium	9900			P
7440-47-3	Chromium	18.1			P
7440-48-4	Cobalt	8.6	B		P
7440-50-8	Copper	26.9			P
7439-89-6	Iron	21900			P
7439-92-1	Lead	18.7		*	P
7439-95-4	Magnesium	5190			P
7439-96-5	Manganese	473			P
7439-97-6	Mercury	0.097	B		CV
7440-02-0	Nickel	23.3		E	P
7440-09-7	Potassium	2370		E	P
7782-49-2	Selenium	1.2	U	N	P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	354	B		P
7440-28-0	Thallium	13.3			P
7440-62-2	Vanadium	34.8			P
7440-66-6	Zinc	70.5			P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE029

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG No.: MEE025

Matrix (soil/water): SOIL Lab Sample ID: MEE025-5

Level (low/med): LOW Date Received: 11/10/00

% Solids: 76.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14700			P
7440-36-0	Antimony	0.60	U	N	P
7440-38-2	Arsenic	5.3			P
7440-39-3	Barium	256			P
7440-41-7	Beryllium	0.87	B		P
7440-43-9	Cadmium	0.078	U		P
7440-70-2	Calcium	7750			P
7440-47-3	Chromium	17.3			P
7440-48-4	Cobalt	8.1	B		P
7440-50-8	Copper	25.4			P
7439-89-6	Iron	19900			P
7439-92-1	Lead	21.5		*	P
7439-95-4	Magnesium	4120			P
7439-96-5	Manganese	601			P
7439-97-6	Mercury	0.073	B		CV
7440-02-0	Nickel	21.7		E	P
7440-09-7	Potassium	1470		E	P
7782-49-2	Selenium	1.1	U	N	P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	376	B		P
7440-28-0	Thallium	13.2			P
7440-62-2	Vanadium	30.5			P
7440-66-6	Zinc	62.1			P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEE02A

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: _____ SDG No.: MEE025

Matrix (soil/water): SOIL Lab Sample ID: MEE025-6

Level (low/med): LOW Date Received: 11/10/00

% Solids: 74.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6860			P
7440-36-0	Antimony	0.65	B	N	P
7440-38-2	Arsenic	5.0			P
7440-39-3	Barium	161			P
7440-41-7	Beryllium	0.51	B		P
7440-43-9	Cadmium	0.081	U		P
7440-70-2	Calcium	23900			P
7440-47-3	Chromium	11.4			P
7440-48-4	Cobalt	8.4	B		P
7440-50-8	Copper	16.2			P
7439-89-6	Iron	17300			P
7439-92-1	Lead	13.8		*	P
7439-95-4	Magnesium	8360			P
7439-96-5	Manganese	516			P
7439-97-6	Mercury	0.092	B		CV
7440-02-0	Nickel	21.6		E	P
7440-09-7	Potassium	1320	B	E	P
7782-49-2	Selenium	1.2	U	N	P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	443	B		P
7440-28-0	Thallium	9.9			P
7440-62-2	Vanadium	21.7			P
7440-66-6	Zinc	48.3			P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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BLANKS

Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE025

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	-57.9	B	52.0	B	34.9	B	-36.5	B	5.420	U	P
Antimony	2.3	U	2.3	U	2.3	U	2.3	U	0.460	U	P
Arsenic	3.4	U	3.4	U	3.4	U	3.4	U	0.680	U	P
Barium	0.1	U	0.3	B	0.3	B	0.3	B	0.100	B	P
Beryllium	0.2	U	0.6	B	0.5	B	0.4	B	0.040	U	P
Cadmium	0.3	U	0.6	B	0.4	B	0.3	B	-.077	B	P
Calcium	-70.0	B	25.0	U	25.0	U	-51.1	B	8.398	B	P
Chromium	-1.3	B	0.6	U	-.9	B	-1.1	B	-.161	B	P
Cobalt	0.6	U	0.6	U	0.6	U	0.6	U	0.120	U	P
Copper	0.9	U	0.9	U	0.9	U	0.9	U	0.180	U	P
Iron	10.6	U	30.8	B	28.4	B	10.6	U	11.453	B	P
Lead	2.1	U	2.1	U	2.1	U	2.1	U	0.420	U	P
Magnesium	7.6	U	76.5	B	74.6	B	14.7	B	4.500	B	P
Manganese	-1.1	B	-.5	B	-.5	B	-.7	B	0.781	B	P
Mercury	0.1	U	0.1	U	0.1	U			0.053	B	CV
Nickel	-2.8	B	-1.3	B	-1.5	B	-1.7	B	-.575	B	P
Potassium	23.0	U	23.0	U	23.0	U	23.0	U	4.600	U	P
Selenium	4.3	U	4.3	U	4.7	B	4.3	U	0.860	U	P
Silver	0.4	U	0.4	U	0.4	B	0.4	U	0.080	U	P
Sodium	203.0	B	267.0	B	138.9	U	298.8	B	172.538	B	P
Thallium	5.7	U	5.7	U	5.7	U	5.7	U	1.140	U	P
Vanadium	0.7	U	0.9	B	0.7	B	0.9	B	0.140	U	P
Zinc	-7.8	B	-6.5	B	-6.9	B	-7.4	B	-.695	B	P

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BLANKS

Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: _____ SDG NO.: MEE025

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C		Prepa-ration Blank	C		M
Aluminum			27.1	U									P
Antimony			2.3	U									P
Arsenic			3.4	U									P
Barium			0.2	B									P
Beryllium			0.5	B									P
Cadmium			0.3	U									P
Calcium			25.0	U									P
Chromium			-1.5	B									P
Cobalt			0.7	B									P
Copper			0.9	U									P
Iron			14.1	B									P
Lead			2.1	U									P
Magnesium			52.6	B									P
Manganese			-.8	B									P
Nickel			-1.7	B									P
Potassium			23.0	U									P
Selenium			4.3	U									P
Silver			0.4	B									P
Sodium			202.5	B									P
Thallium			-5.7	B									P
Vanadium			0.8	B									P
Zinc			-7.5	B									P

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5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEE025S

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: _____ SDG NO.: MEE025

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 76.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75 - 125	30.5056		0.6119	B	131.23	22.8	N	P
Arsenic	75 - 125	13.3146		3.3450		10.50	94.9		P
Barium	75 - 125	727.4683		170.6623		524.93	106.1		P
Beryllium	75 - 125	12.9860		0.8316	B	13.12	92.6		P
Cadmium	75 - 125	12.0353		0.0787	U	13.12	91.7		P
Calcium		4500							P
Chromium	75 - 125	70.6858		15.8312		52.49	104.5		P
Cobalt	75 - 125	130.7103		5.6047	B	131.23	95.3		P
Copper	75 - 125	88.6244		20.0776		65.62	104.5		P
Lead	75 - 125	26.6924		20.6325		5.25	115.4		P
Manganese	75 - 125	510.6354		372.4901		131.23	105.3		P
Mercury	75 - 125	0.6388		0.0969	B	0.66	82.1		CV
Nickel	75 - 125	142.5401		14.9043		131.23	97.3		P
Selenium	75 - 125	3.1539		1.4522		2.62	65.0	N	P
Silver	75 - 125	12.5444		0.1050	U	13.12	95.6		P
Thallium	75 - 125	25.8904		11.7293		13.12	107.9		P
Vanadium	75 - 125	155.7129		25.5576		131.23	99.2		P
Zinc	75 - 125	197.3582		66.7361		131.23	99.5		P

Comments: _____

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5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEE025A

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE025

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Antimony		118.98		2.33	B	120.0	97.2		P
Selenium		13.15		5.53		11.0	69.3		P

Comments:

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DUPLICATES

EPA SAMPLE NO.

MEE025D

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE025

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 76.2 % Solids for Duplicate: 74.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		11400.7988		9515.5234		18.0		P
Antimony		0.6119	B	0.6037	U	200.0		P
Arsenic	2.6	3.3450		3.7612		11.7		P
Barium	52.5	170.6623		139.7890		19.9		P
Beryllium		0.8316	B	0.7233	B	13.9		P
Cadmium		0.0787	U	0.0787	U			P
Calcium	1312.3	4226.7876		3934.9741		7.2		P
Chromium		15.8312		13.9916		12.3		P
Cobalt		5.6047	B	5.0004	B	11.4		P
Copper	6.6	20.0776		18.0928		10.4		P
Iron		16357.8750		14601.3057		11.3		P
Lead		20.6325		26.5447		25.1	*	P
Magnesium	1312.3	2631.7378		2197.2383		18.0		P
Manganese		372.4901		354.4160		5.0		P
Mercury		0.0969	B	0.0984	B	1.5		CV
Nickel	10.5	14.9043		12.9146		14.3		P
Potassium		1090.7327	B	1013.7284	B	7.3		P
Selenium	1.3	1.4522		1.1286	U	200.0		P
Silver		0.1050	U	0.1050	U			P
Sodium		194.8051	B	207.9469	B	6.5		P
Thallium	2.6	11.7293		9.9158		16.8		P
Vanadium	13.1	25.5576		24.5056		4.2		P
Zinc		66.7361		67.5390		1.2		P

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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

MEE025L

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE025

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	43437.04		42821.30		1.4		P
Antimony	2.33	B	11.50	U	100.0		P
Arsenic	12.74		17.41	B	36.7		P
Barium	650.22		667.21	B	2.6		P
Beryllium	3.17	B	3.74	B	18.0		P
Cadmium	0.30	U	1.50	U			P
Calcium	16104.06		16243.03	B	0.9		P
Chromium	60.32		57.34		4.9		P
Cobalt	21.35	B	20.91	B	2.1		P
Copper	76.50		71.79	B	6.2		P
Iron	62323.50		64646.10		3.7		P
Lead	78.61		75.91		3.4		P
Magnesium	10026.92		10330.68	B	3.0		P
Manganese	1419.19		1473.59		3.8		P
Nickel	56.79		50.88	B	10.4	E	P
Potassium	4155.69	B	3651.52	B	12.1	E	P
Selenium	5.53		21.50	U	100.0		P
Silver	0.40	U	2.00	U			P
Sodium	742.21	B	1700.34	B	129.1		P
Thallium	44.69		50.26		12.5		P
Vanadium	97.37		102.38	B	5.1		P
Zinc	254.26		247.06		2.8		P

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE025

ICP ID Number: P3 Date: 10/15/00

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200	27.1	P
Antimony	206.84		60	2.3	P
Arsenic	189.04		10	3.4	P
Barium	493.41		200	0.1	P
Beryllium	313.04		5	0.2	P
Cadmium	226.50		5	0.3	P
Calcium	317.93		5000	25.0	P
Chromium	267.72		10	0.6	P
Cobalt	228.62		50	0.6	P
Copper	324.70		25	0.9	P
Iron	271.44		100	10.6	P
Lead	220.35		3	2.1	P
Magnesium	279.08		5000	7.6	P
Manganese	257.61		15	0.1	P
Nickel	231.60		40	0.8	P
Potassium	766.49		5000	23.0	P
Selenium	196.03		5	4.3	P
Silver	328.07		10	0.4	P
Sodium	330.23		5000	138.9	P
Thallium	190.86		10	5.7	P
Vanadium	292.40		50	0.7	P
Zinc	213.86		20	1.2	P

Comments:

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE025

ICP ID Number: Date: 10/15/00

Flame AA ID Number: V2

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Mercury	253.70		0.2	0.1	CV

Comments:

PREPARATION LOG

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE025

Method: P

EPA Sample No.	Preparation Date	Weight (grams)	Volume (mL)
LCSS	11/15/00	1.00	200
MEE025	11/15/00	1.00	200
MEE025D	11/15/00	1.00	200
MEE025S	11/15/00	1.00	200
MEE026	11/15/00	1.08	200
MEE027	11/15/00	1.02	200
MEE028	11/15/00	1.00	200
MEE029	11/15/00	1.00	200
MEE02A	11/15/00	1.00	200
PBS	11/15/00	1.00	200

PREPARATION LOG

Lab Name: COMPUCHEM Contract: 68W00082

Lab Code: LIBRTY Case No.: 28678 SAS No.: SDG NO.: MEE025

Method: CV

EPA Sample No.	Preparation Date	Weight (grams)	Volume (mL)
LCSS	11/15/00	0.20	100
MEE025	11/15/00	0.20	100
MEE025D	11/15/00	0.20	100
MEE025S	11/15/00	0.20	100
MEE026	11/15/00	0.29	100
MEE027	11/15/00	0.26	100
MEE028	11/15/00	0.29	100
MEE029	11/15/00	0.26	100
MEE02A	11/15/00	0.26	100
PBS	11/15/00	0.20	100

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: MEE025 CERCLIS No: ILD041869023

Case No: 28678 Site Name/Location: Chark Oil

Contractor or EPA Lab: CompuChem Data User: IEPA

No. of Samples: 6 Date Sampled or Date Received: 11-28-00

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 6 No. of samples received: 6

Received by: Eva M. Dixon / ESAT Date: 11-28-00

Received by LSSS: Eva M. Dixon / ESAT Date: 11-28-00

Review started: 12-15-00 Reviewer Signature: Stephanie Tobin

Total time spent on review: 6 Date review completed: 12-19-00

Copied by: Eva M. Dixon / ESAT Date: 12-28-00

Mailed to user by: Eva M. Dixon / ESAT Date: 12-28-00

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____